

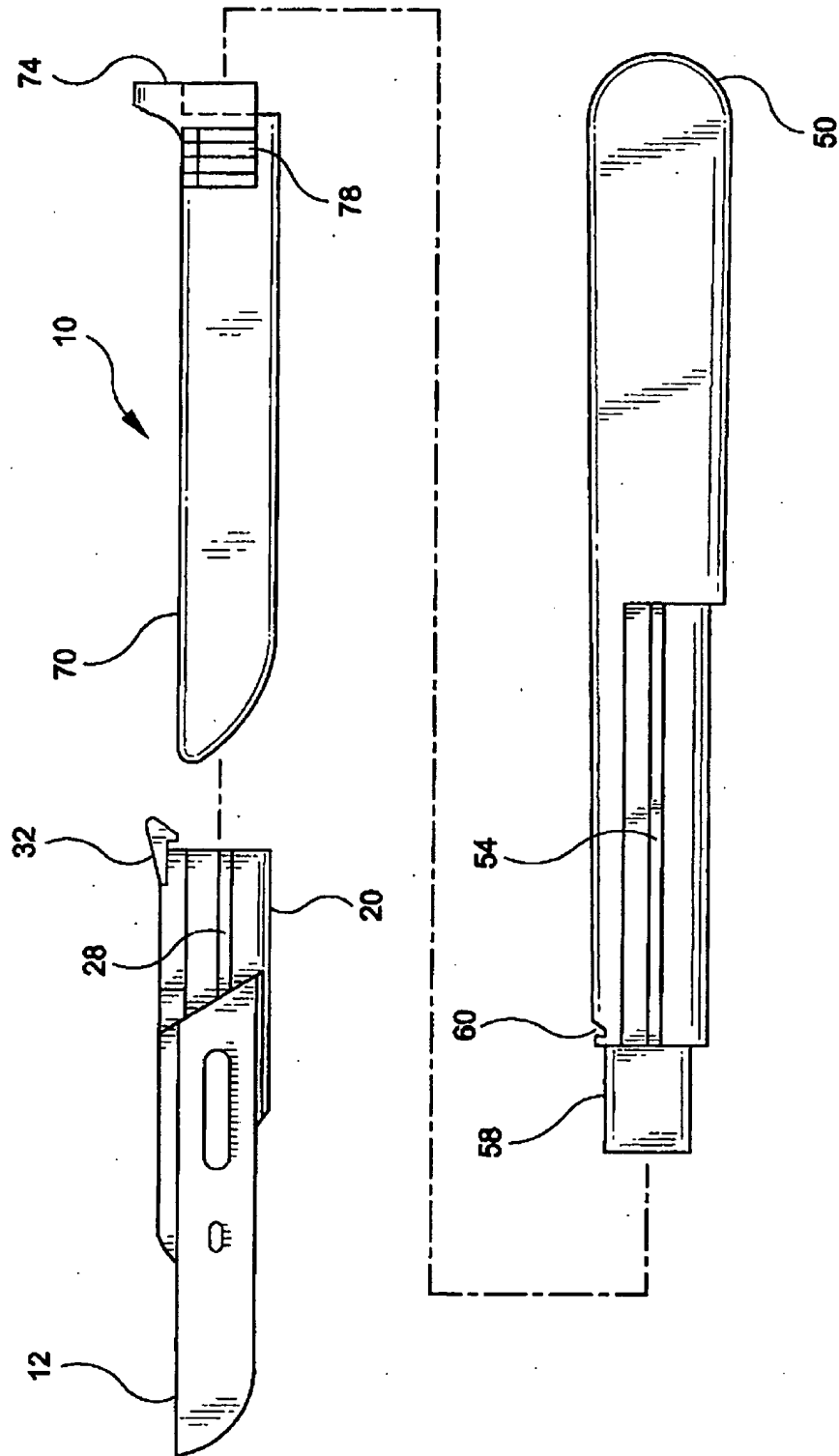
U.S. Patent

Apr. 25, 2000

Sheet 1 of 44

6,053,929

FIG-1

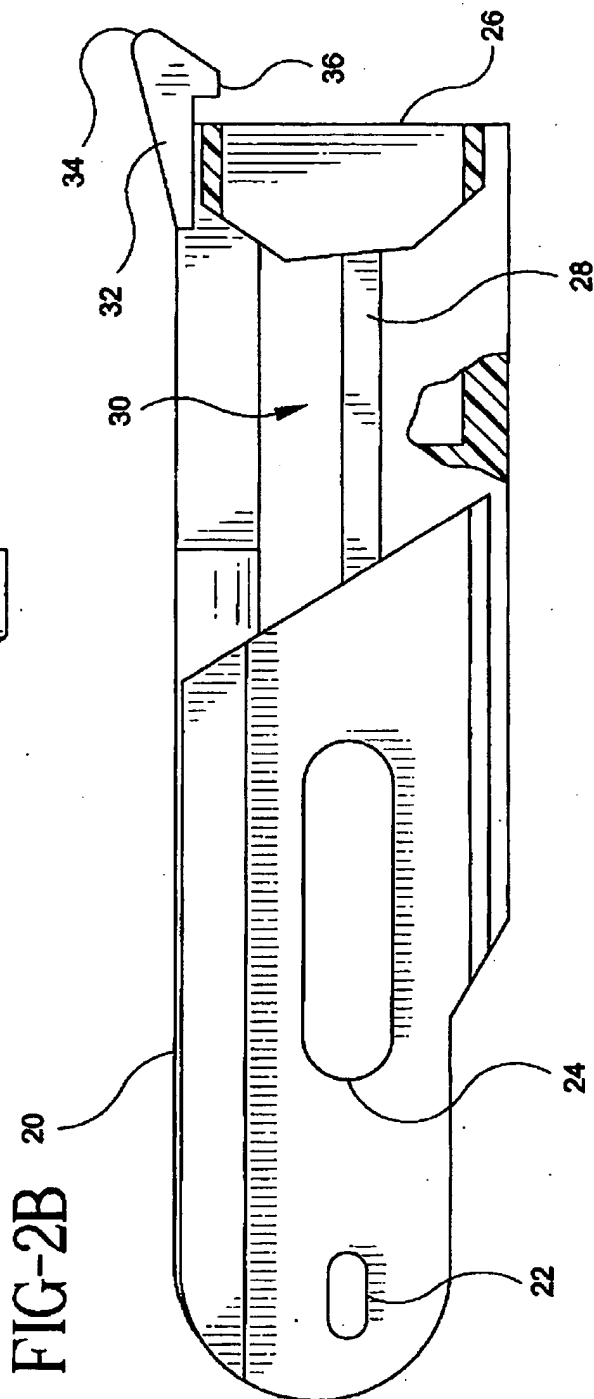
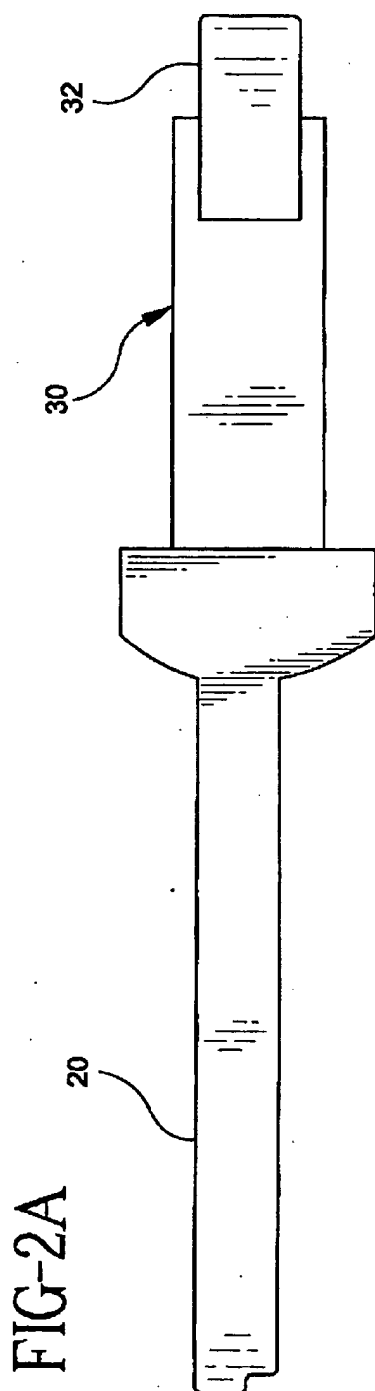


U.S. Patent

Apr. 25, 2000

Sheet 2 of 44

6,053,929

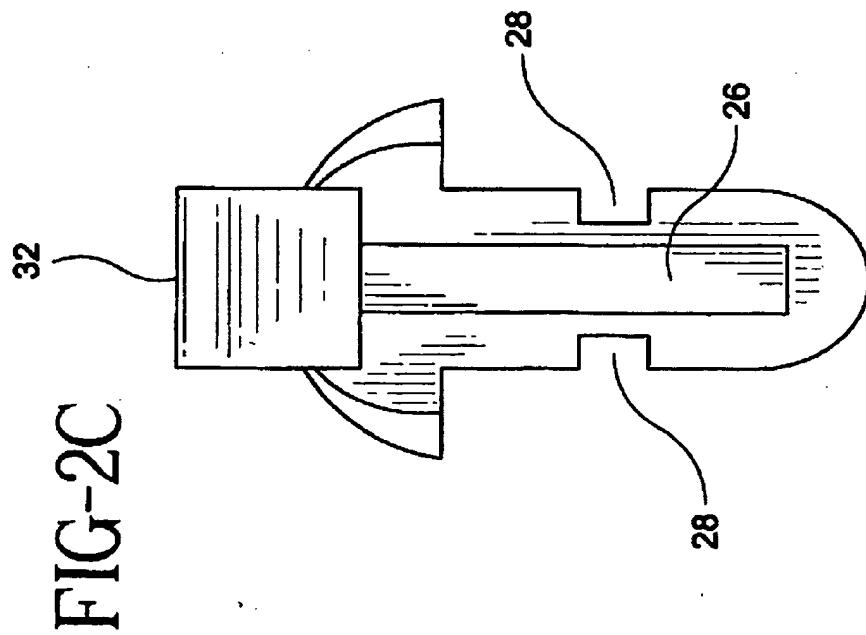
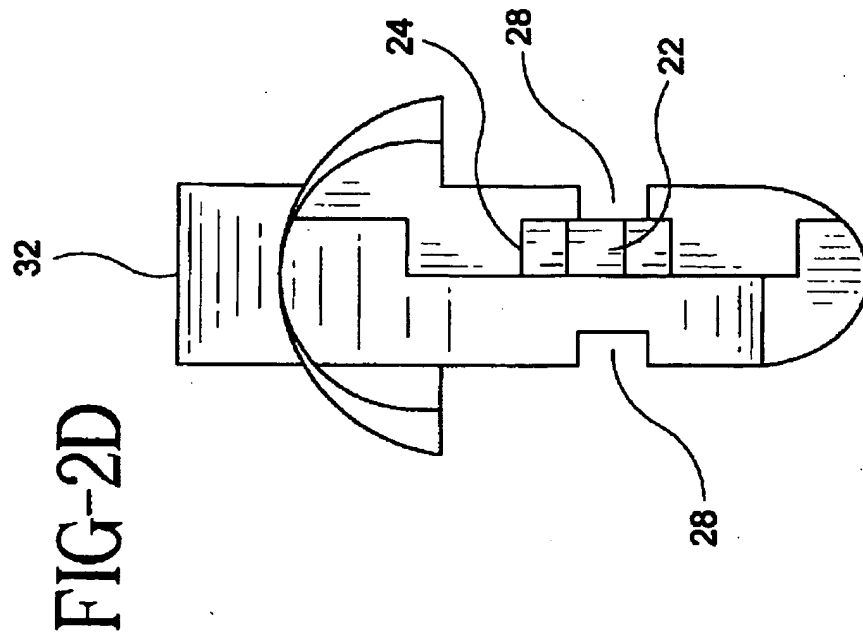


U.S. Patent

Apr. 25, 2000

Sheet 3 of 44

6,053,929



U.S. Patent

Apr. 25, 2000

Sheet 4 of 44

6,053,929

FIG-3A

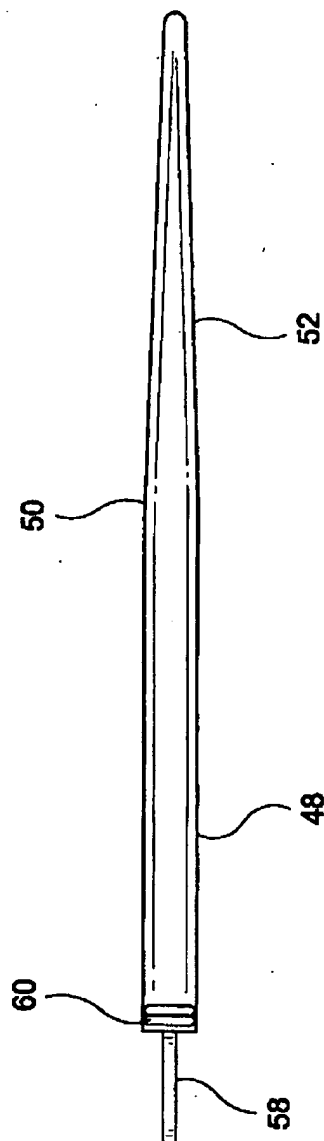
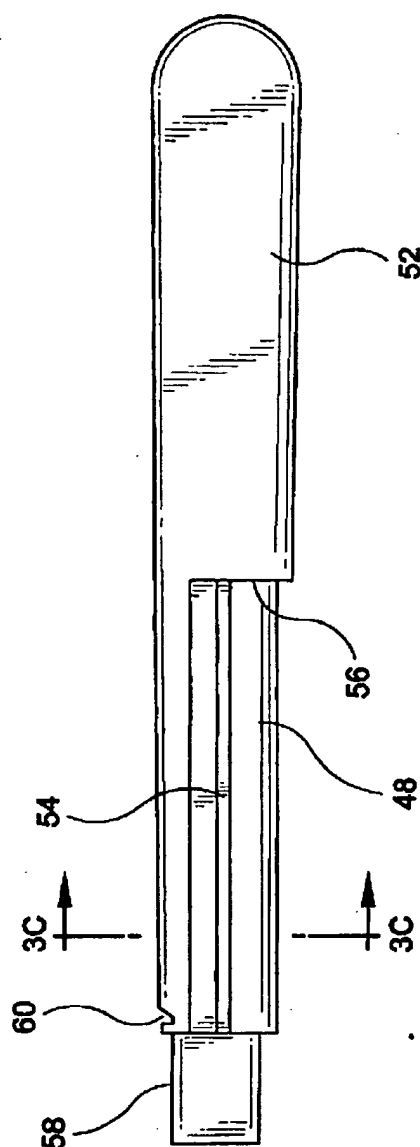


FIG-3B



U.S. Patent

Apr. 25, 2000

Sheet 5 of 44

6,053,929

FIG-3D

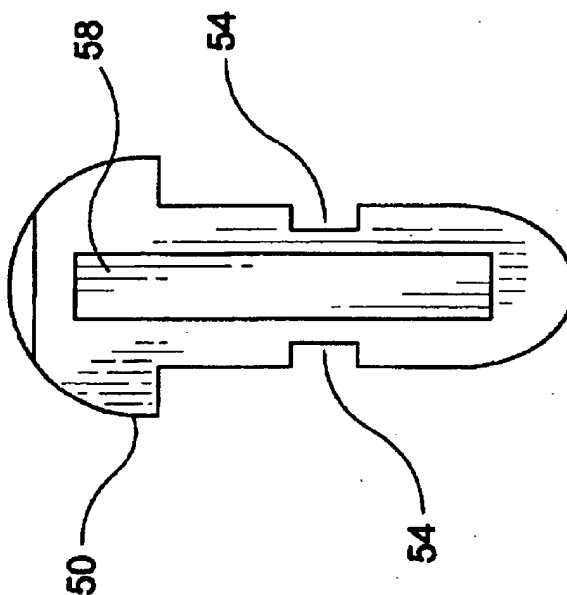
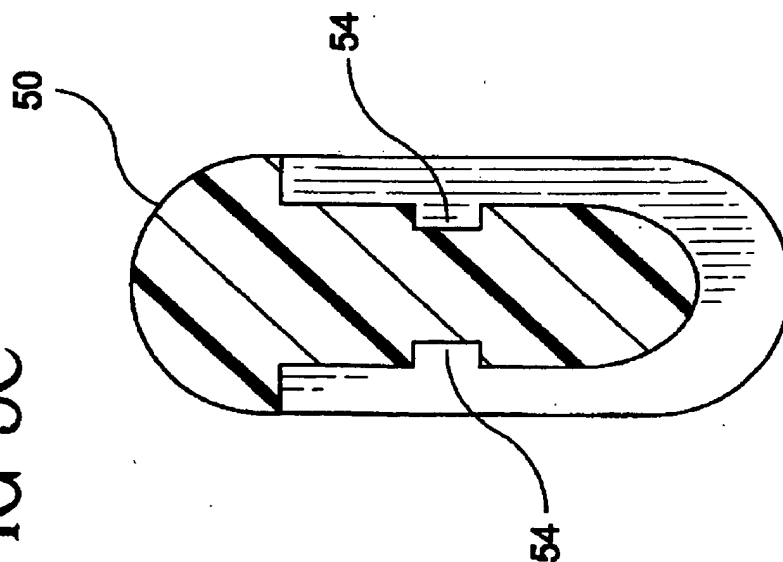


FIG-3C

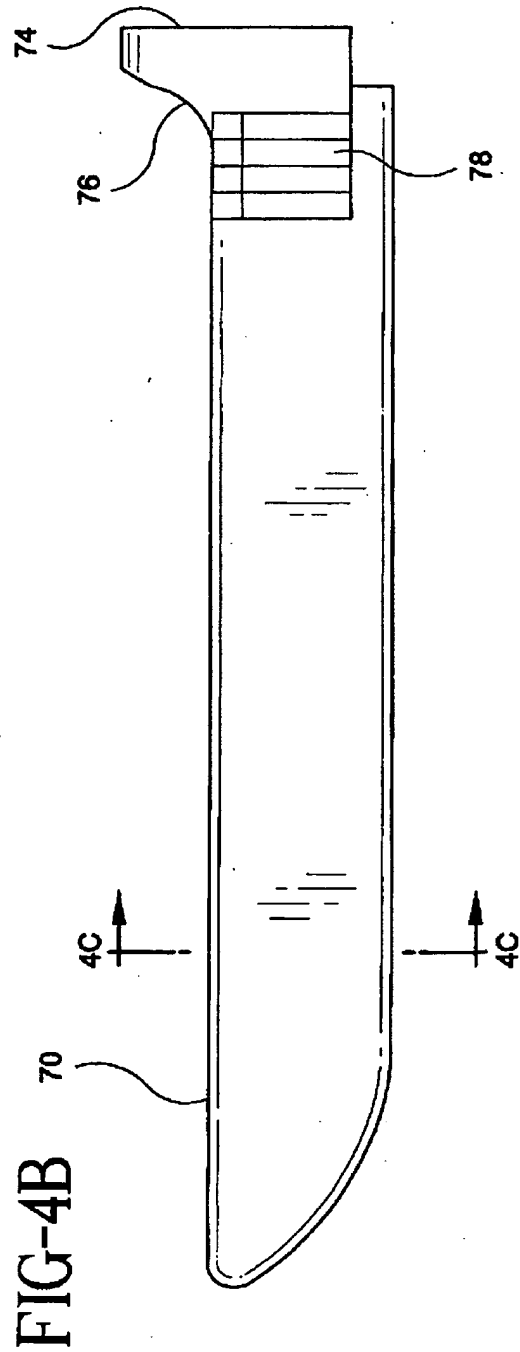
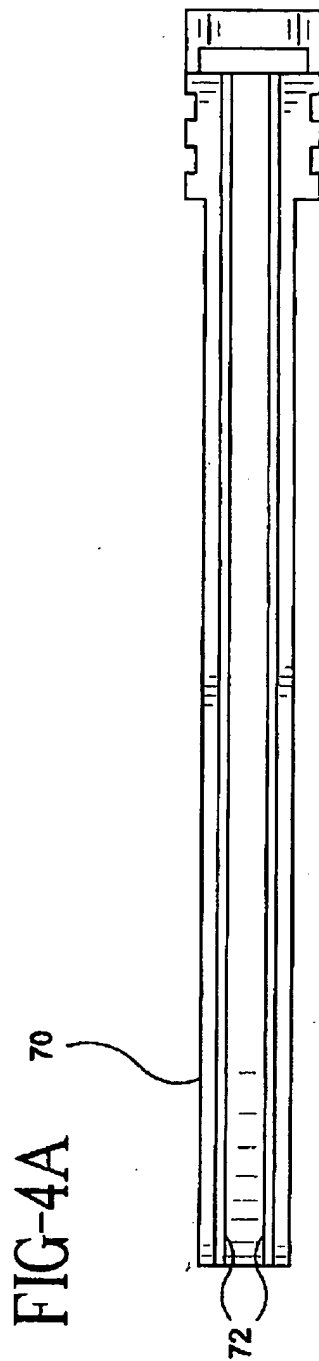


U.S. Patent

Apr. 25, 2000

Sheet 6 of 44

6,053,929



U.S. Patent

Apr. 25, 2000

Sheet 7 of 44

6,053,929

FIG-4D

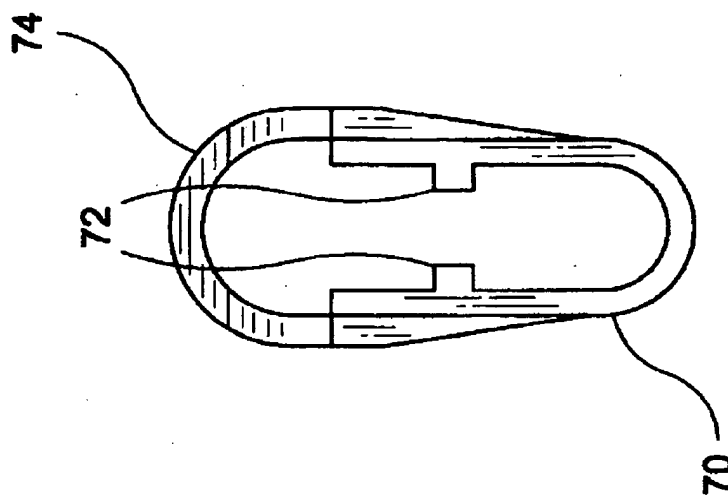
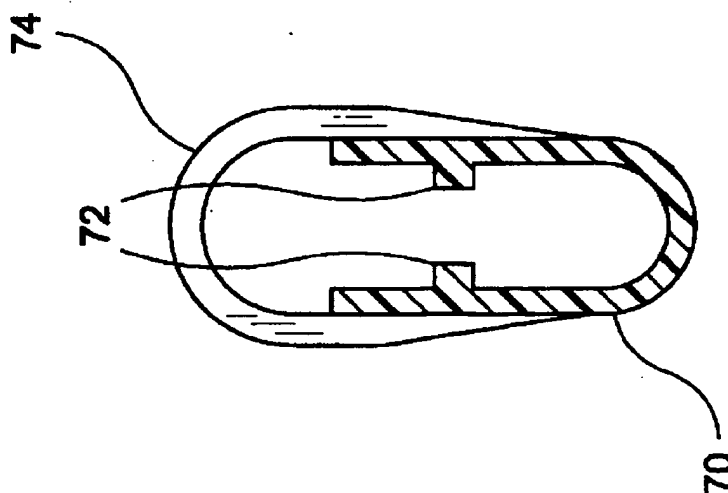


FIG-4C



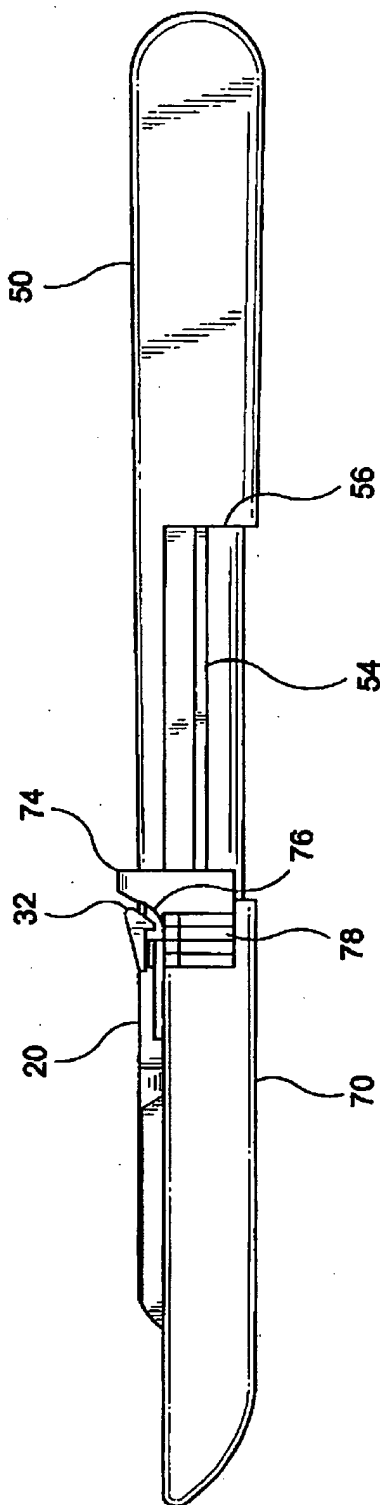
U.S. Patent

Apr. 25, 2000

Sheet 8 of 44

6,053,929

FIG-5A



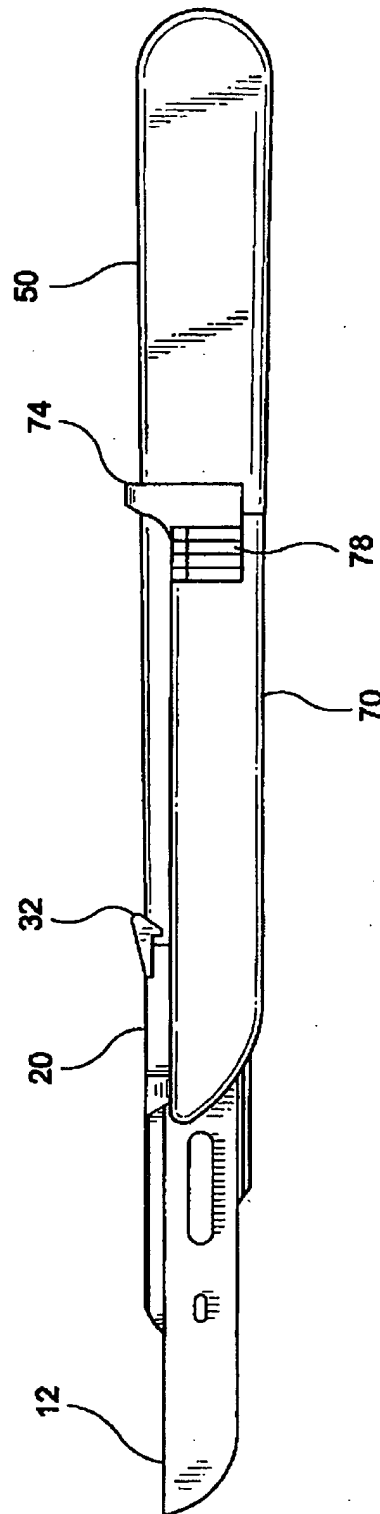
U.S. Patent

Apr. 25, 2000

Sheet 9 of 44

6,053,929

FIG-5B



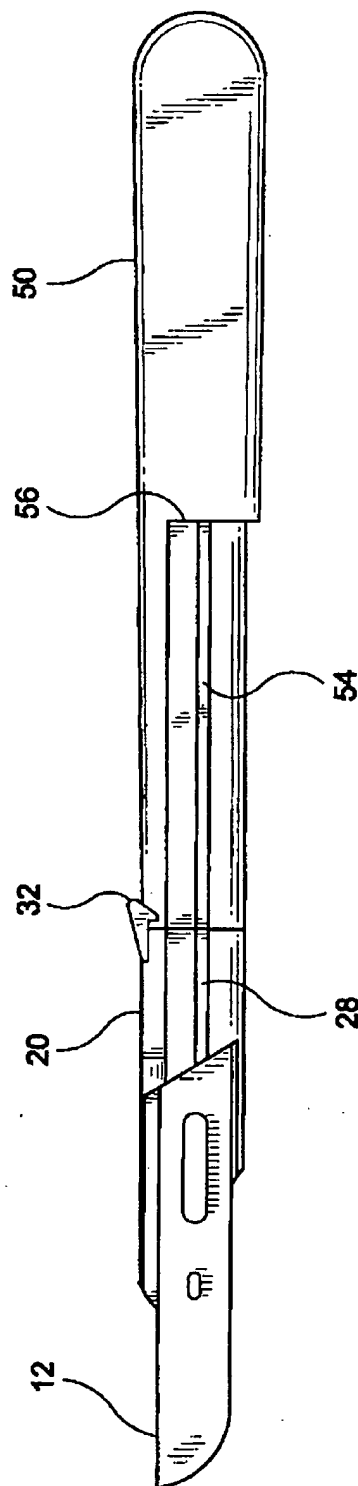
U.S. Patent

Apr. 25, 2000

Sheet 10 of 44

6,053,929

FIG-5C



U.S. Patent

Apr. 25, 2000

Sheet 11 of 44

6,053,929

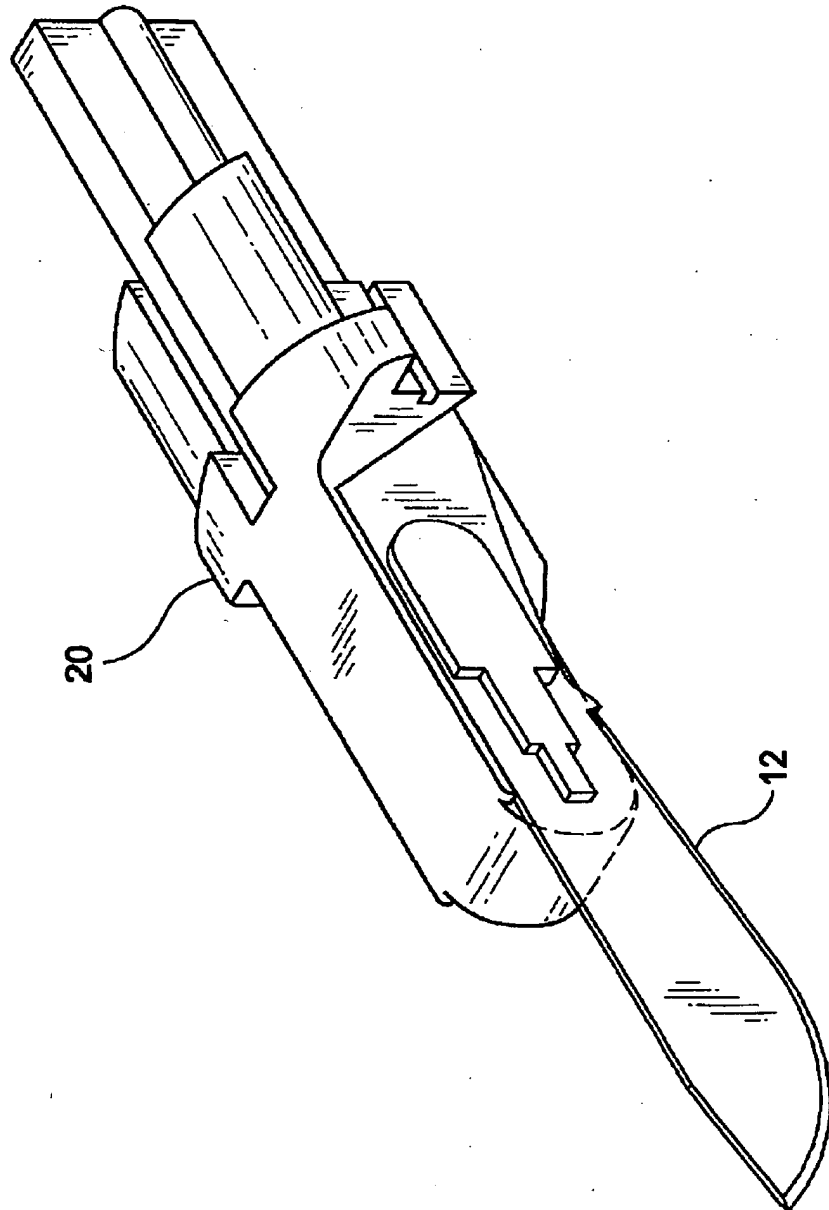


FIG-6

U.S. Patent

Apr. 25, 2000

Sheet 12 of 44

6,053,929

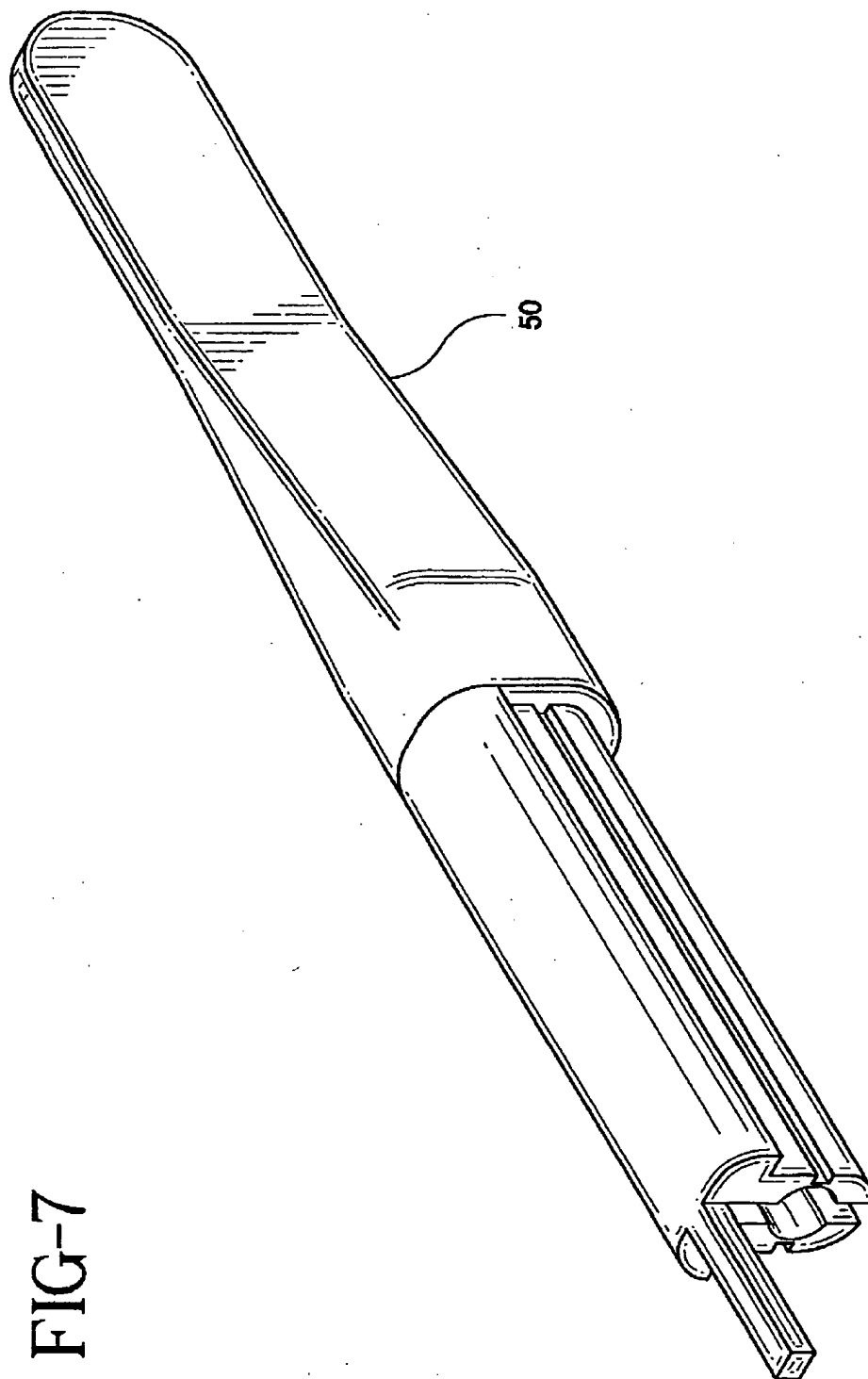


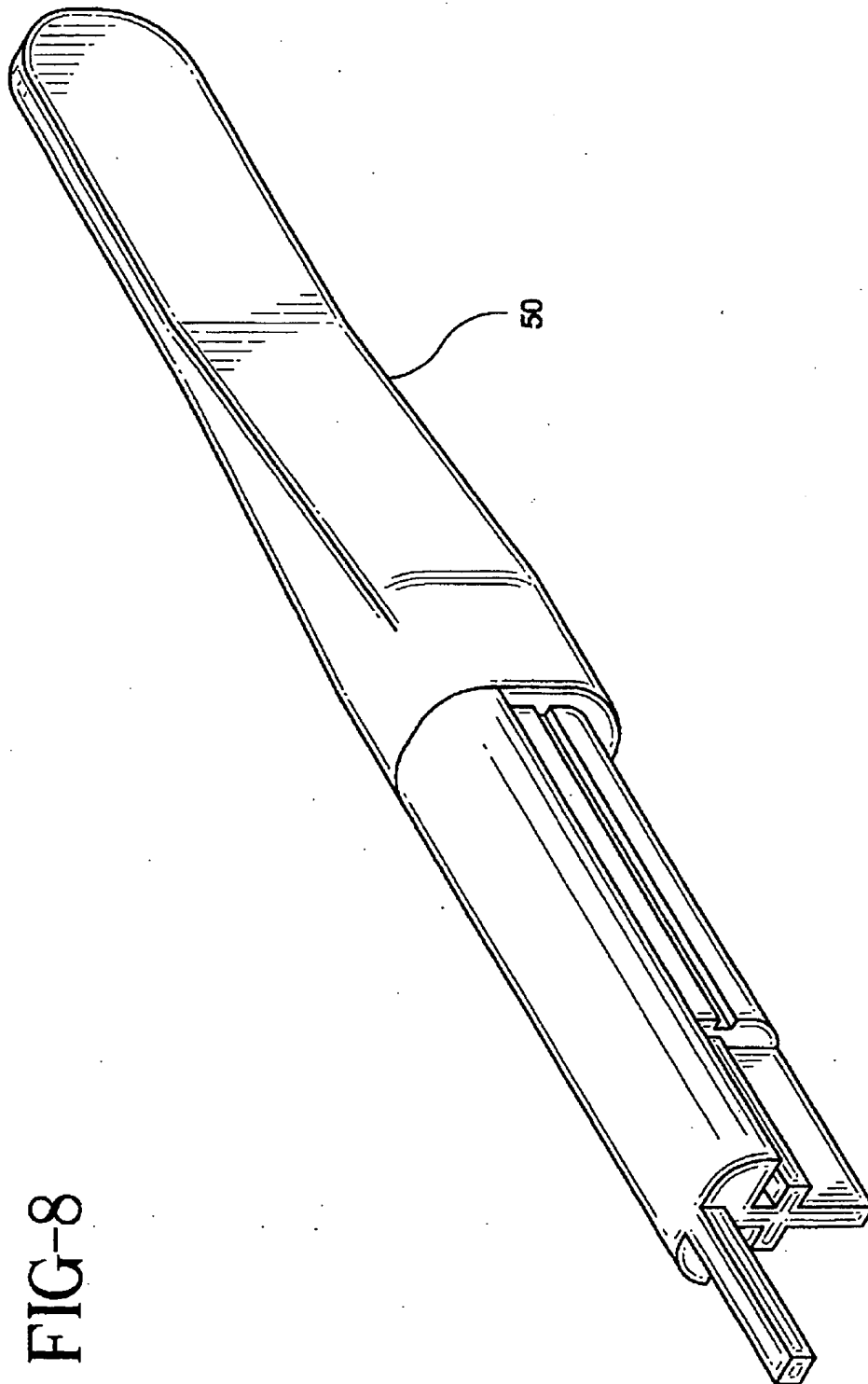
FIG-7

U.S. Patent

Apr. 25, 2000

Sheet 13 of 44

6,053,929

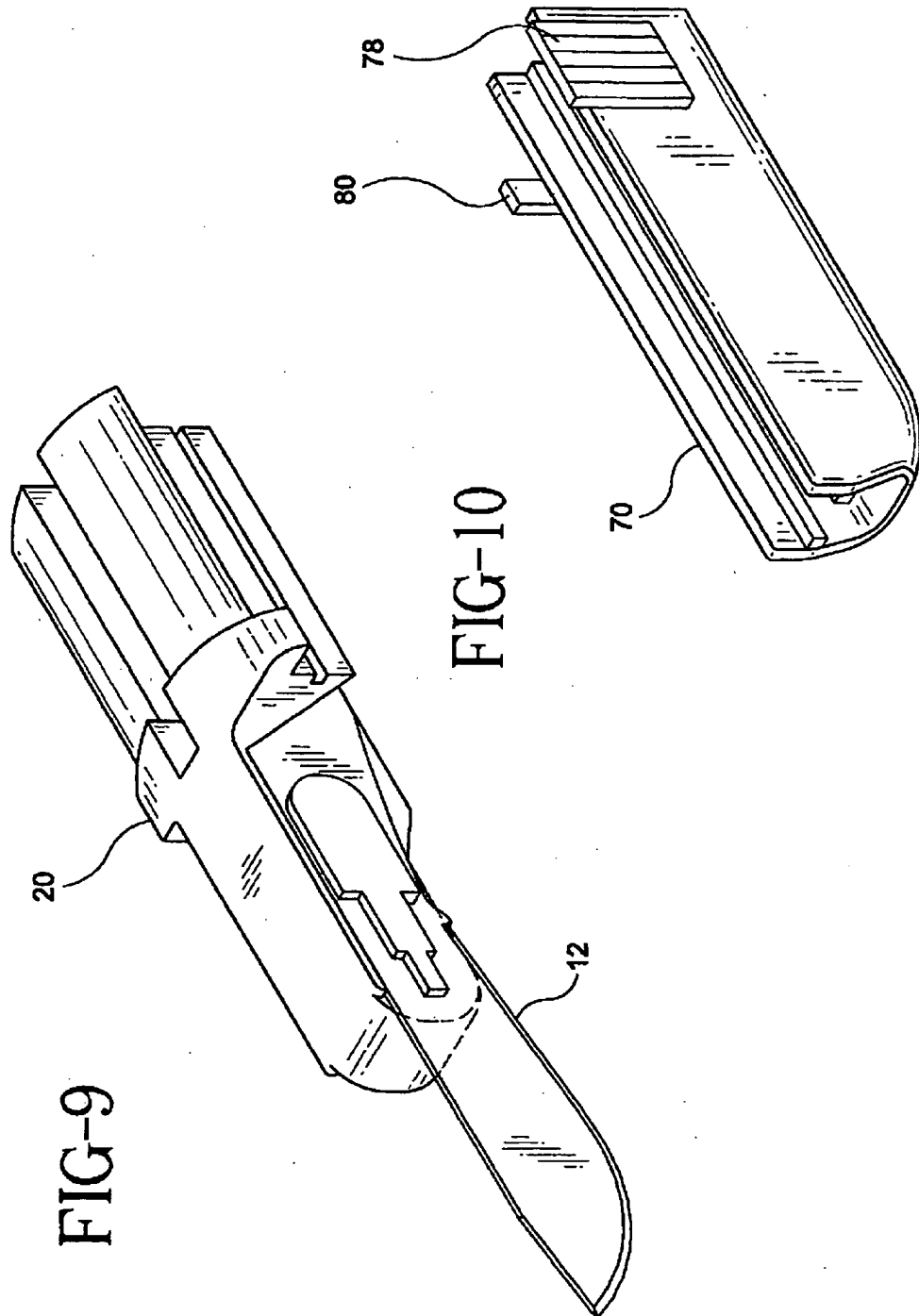


U.S. Patent

Apr. 25, 2000

Sheet 14 of 44

6,053,929



U.S. Patent

Apr. 25, 2000

Sheet 15 of 44

6,053,929

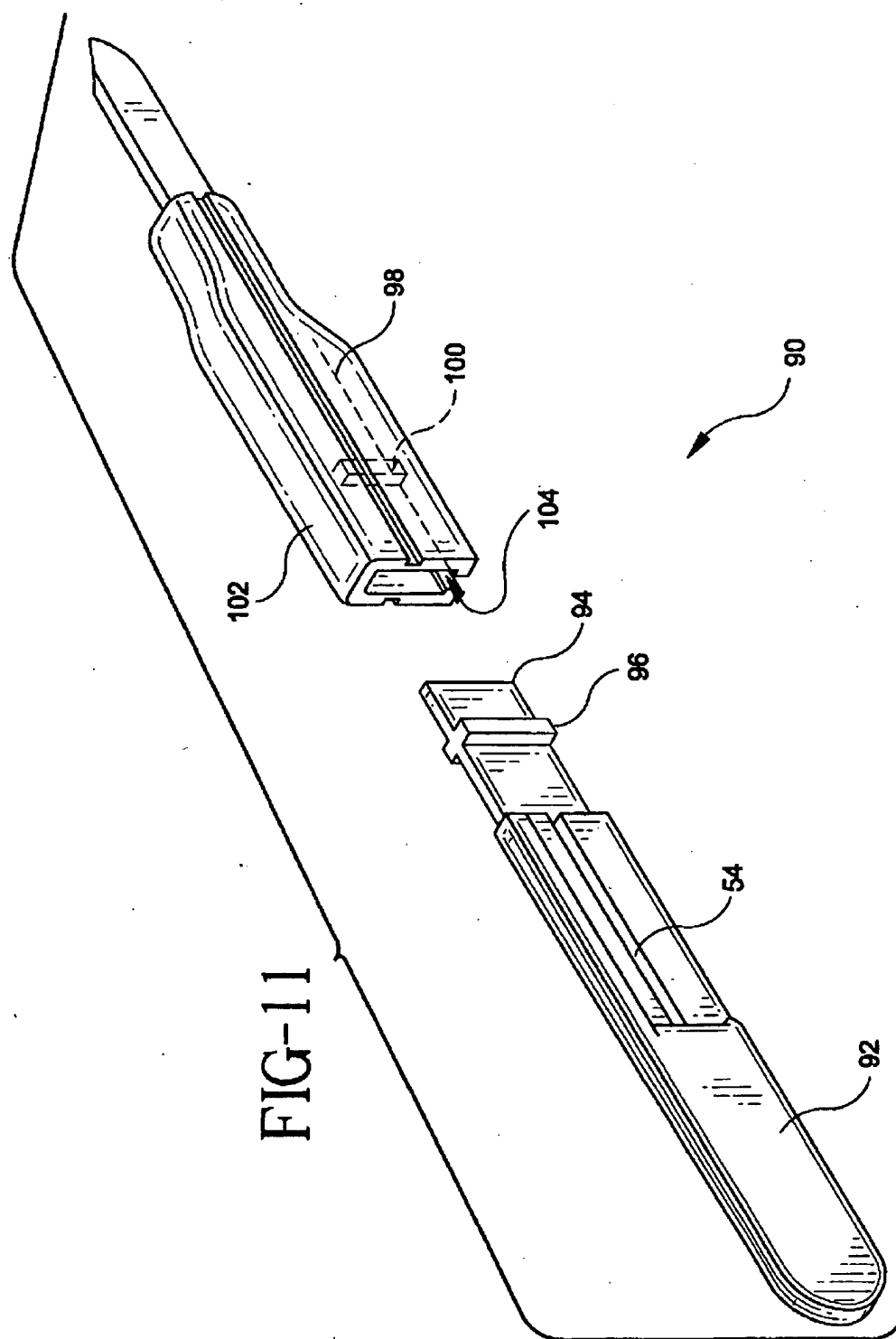


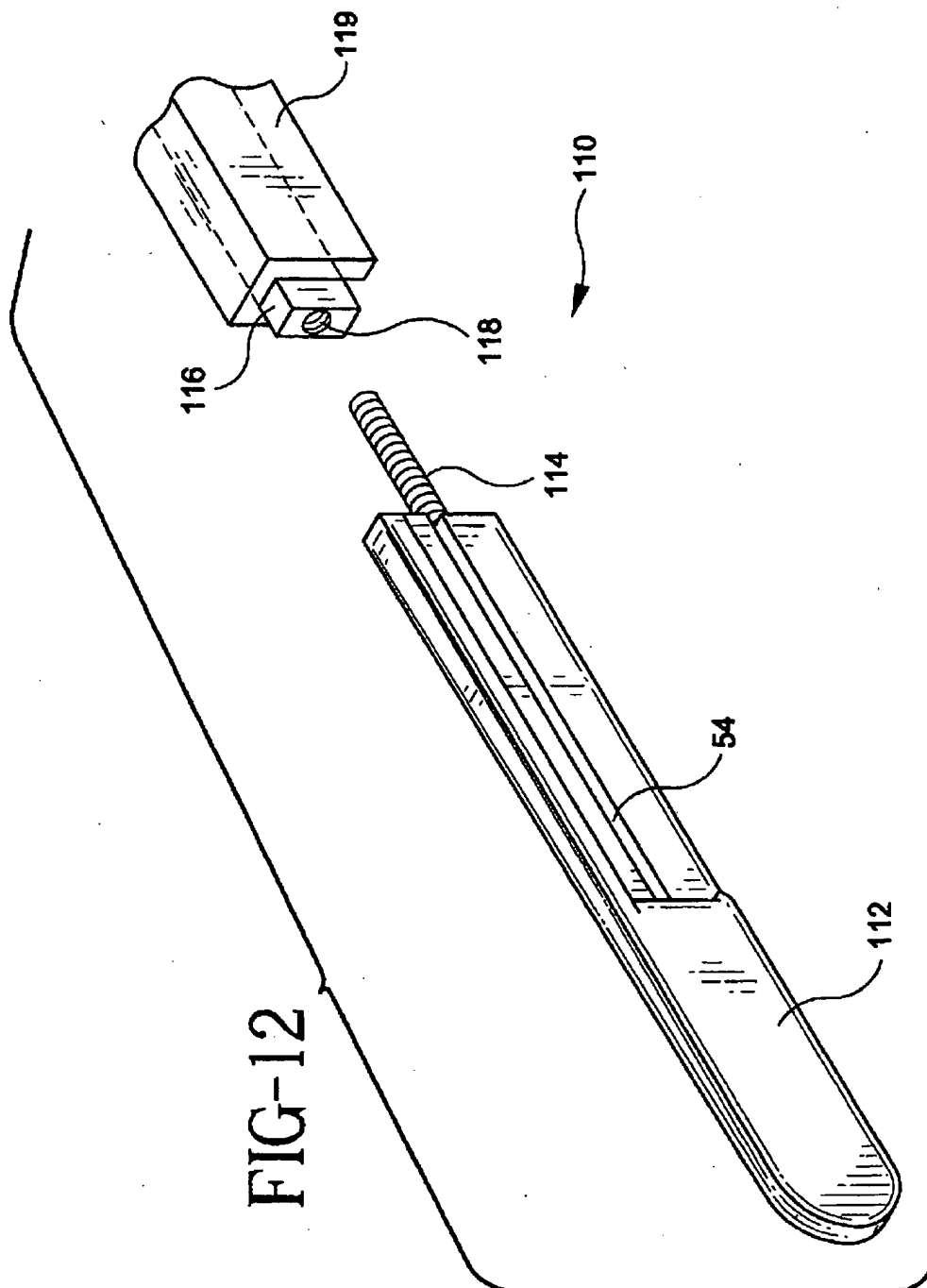
FIG-11

U.S. Patent

Apr. 25, 2000

Sheet 16 of 44

6,053,929

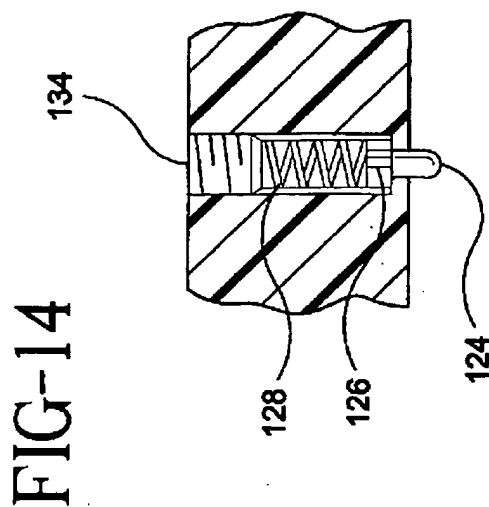
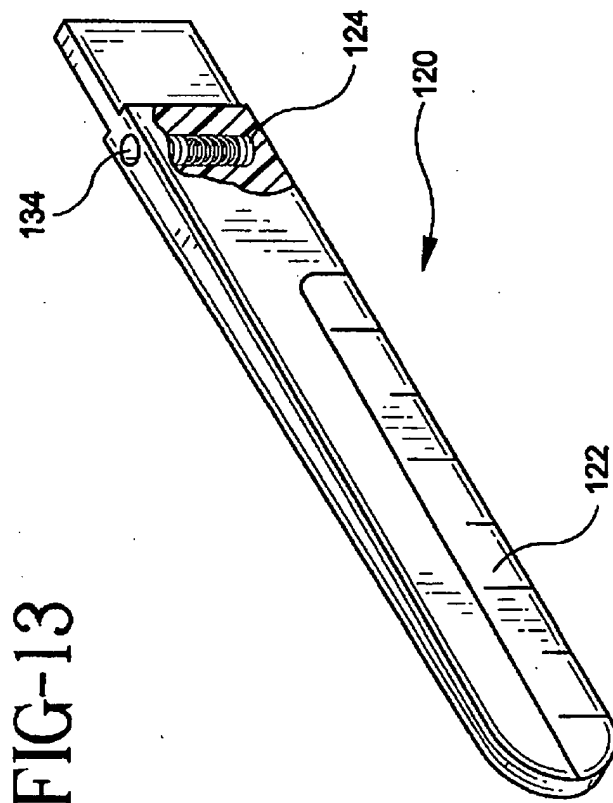


U.S. Patent

Apr. 25, 2000

Sheet 17 of 44

6,053,929



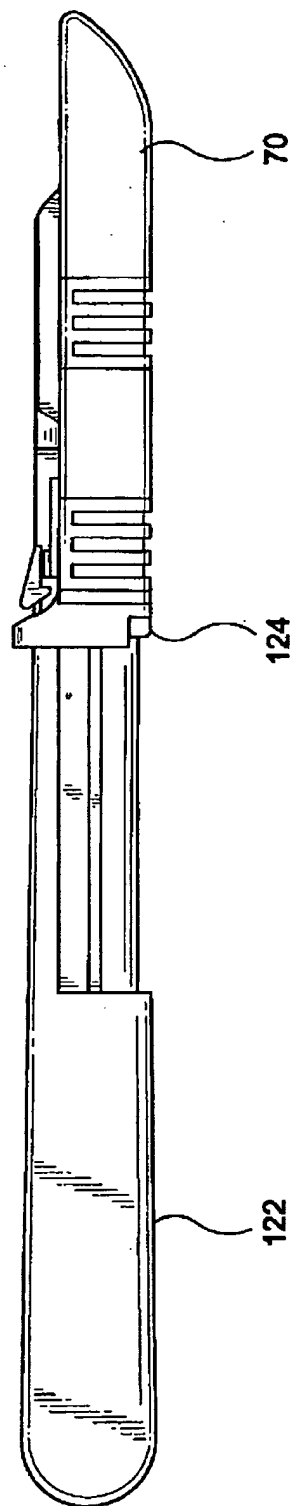
U.S. Patent

Apr. 25, 2000

Sheet 18 of 44

6,053,929

FIG-15

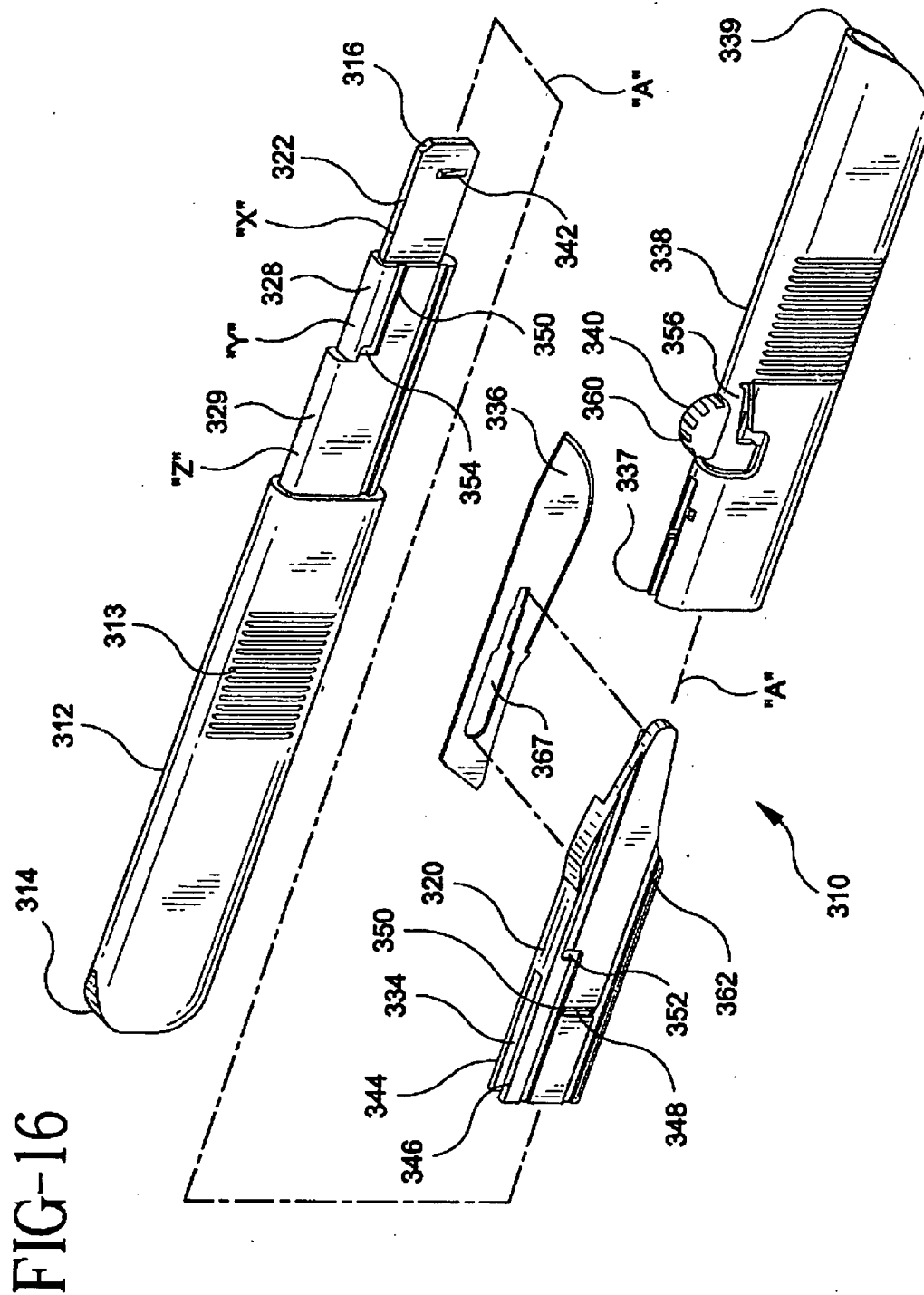


U.S. Patent

Apr. 25, 2000

Sheet 19 of 44

6,053,929



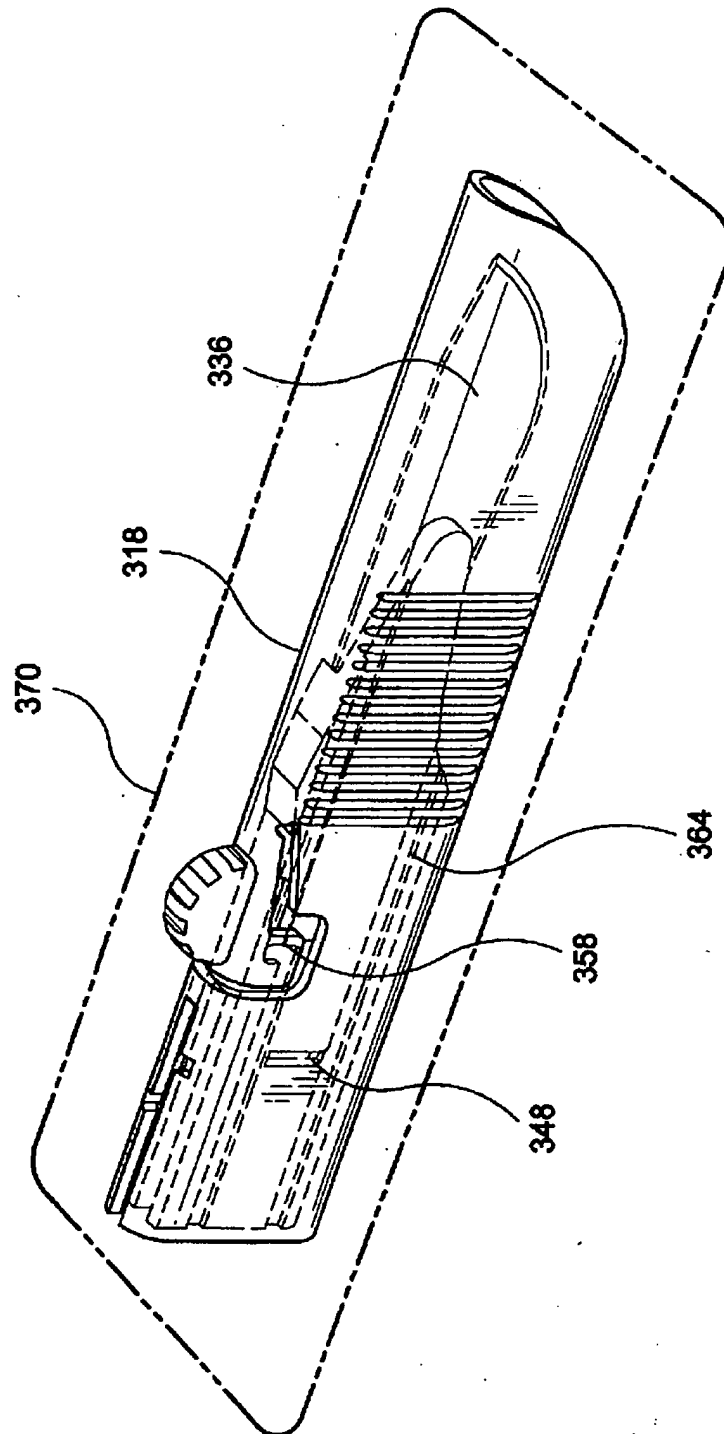
U.S. Patent

Apr. 25, 2000

Sheet 20 of 44

6,053,929

FIG-17



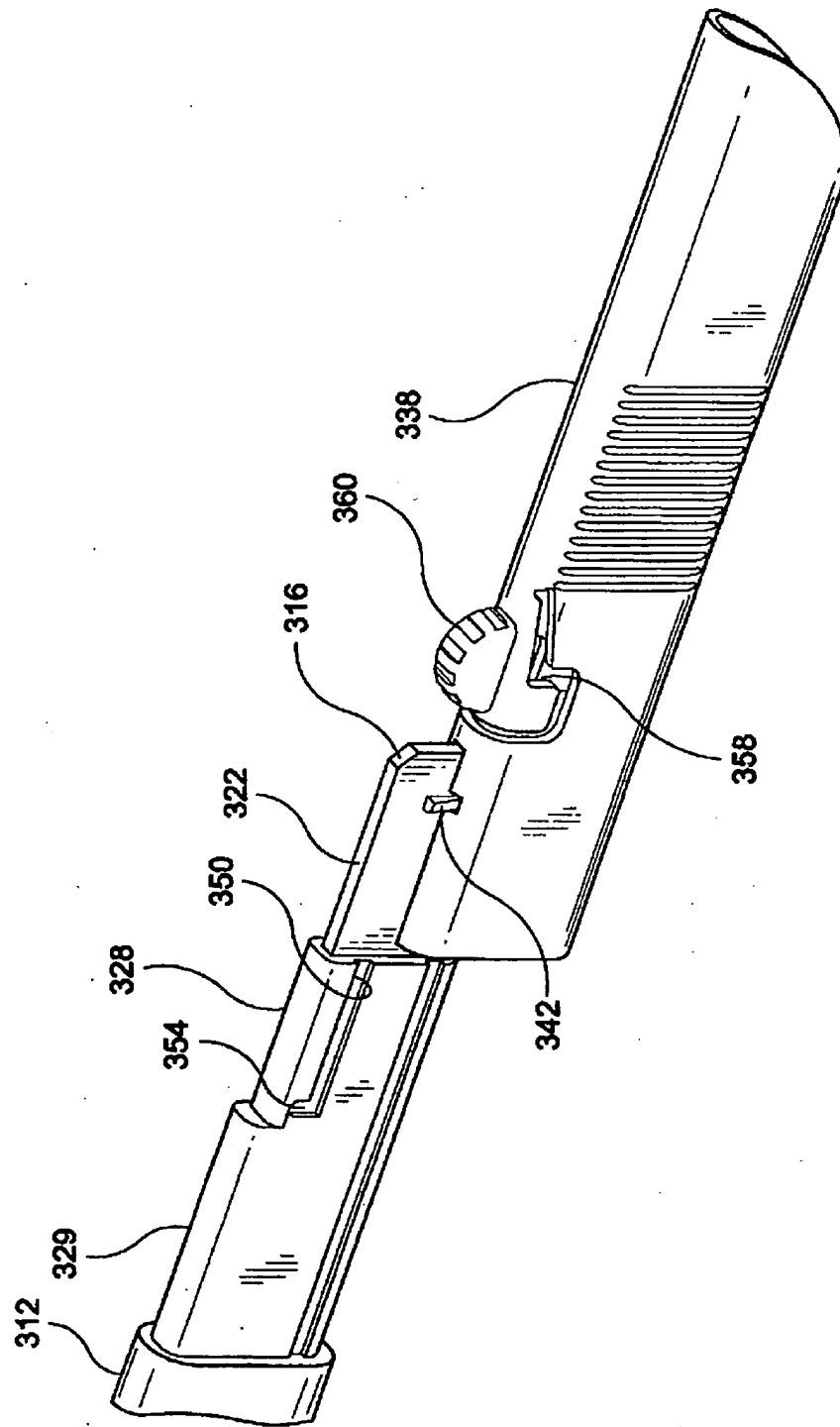
U.S. Patent

Apr. 25, 2000

Sheet 21 of 44

6,053,929

FIG-18



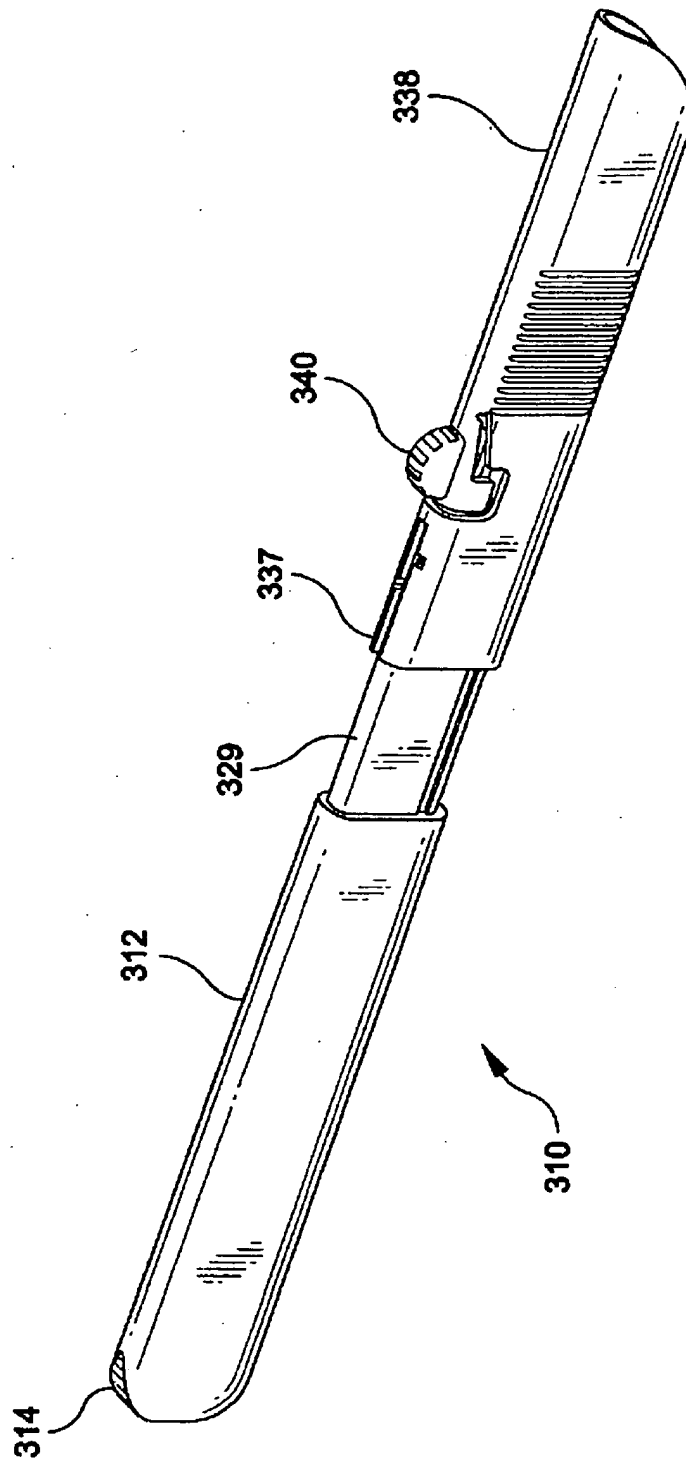
U.S. Patent

Apr. 25, 2000

Sheet 22 of 44

6,053,929

FIG-19



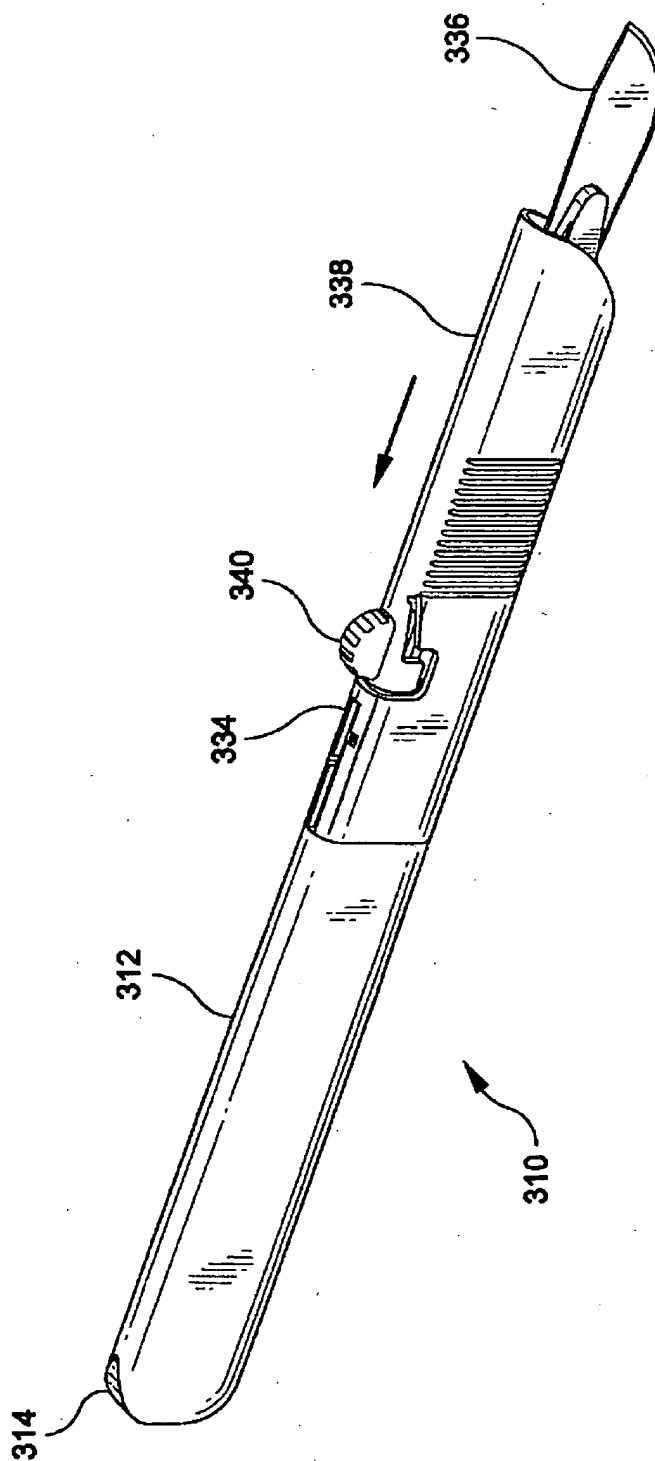
U.S. Patent

Apr. 25, 2000

Sheet 23 of 44

6,053,929

FIG-20



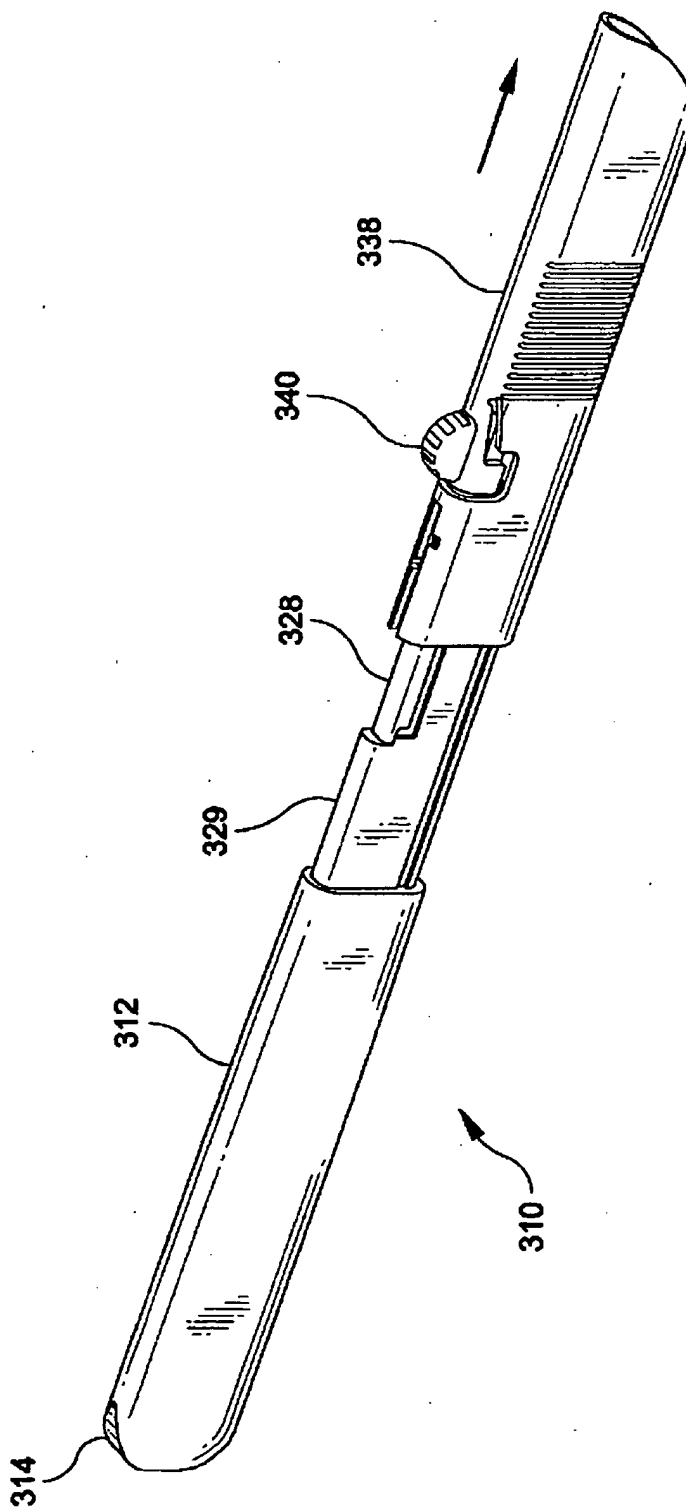
U.S. Patent

Apr. 25, 2000

Sheet 24 of 44

6,053,929

FIG-21



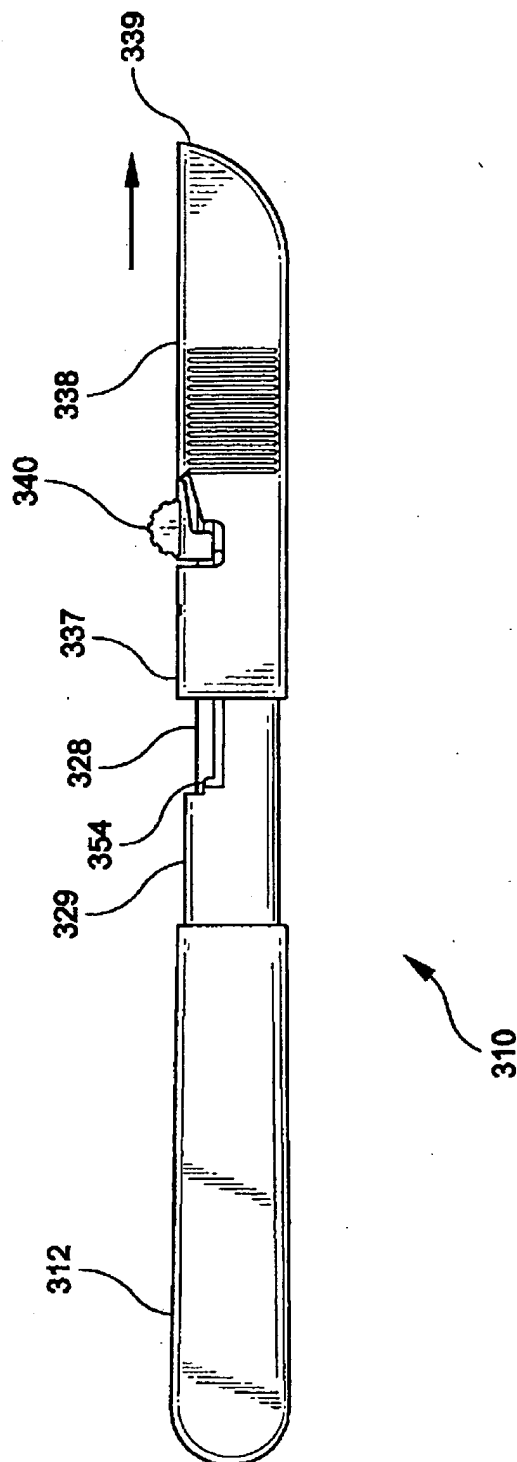
U.S. Patent

Apr. 25, 2000

Sheet 25 of 44

6,053,929

FIG-22



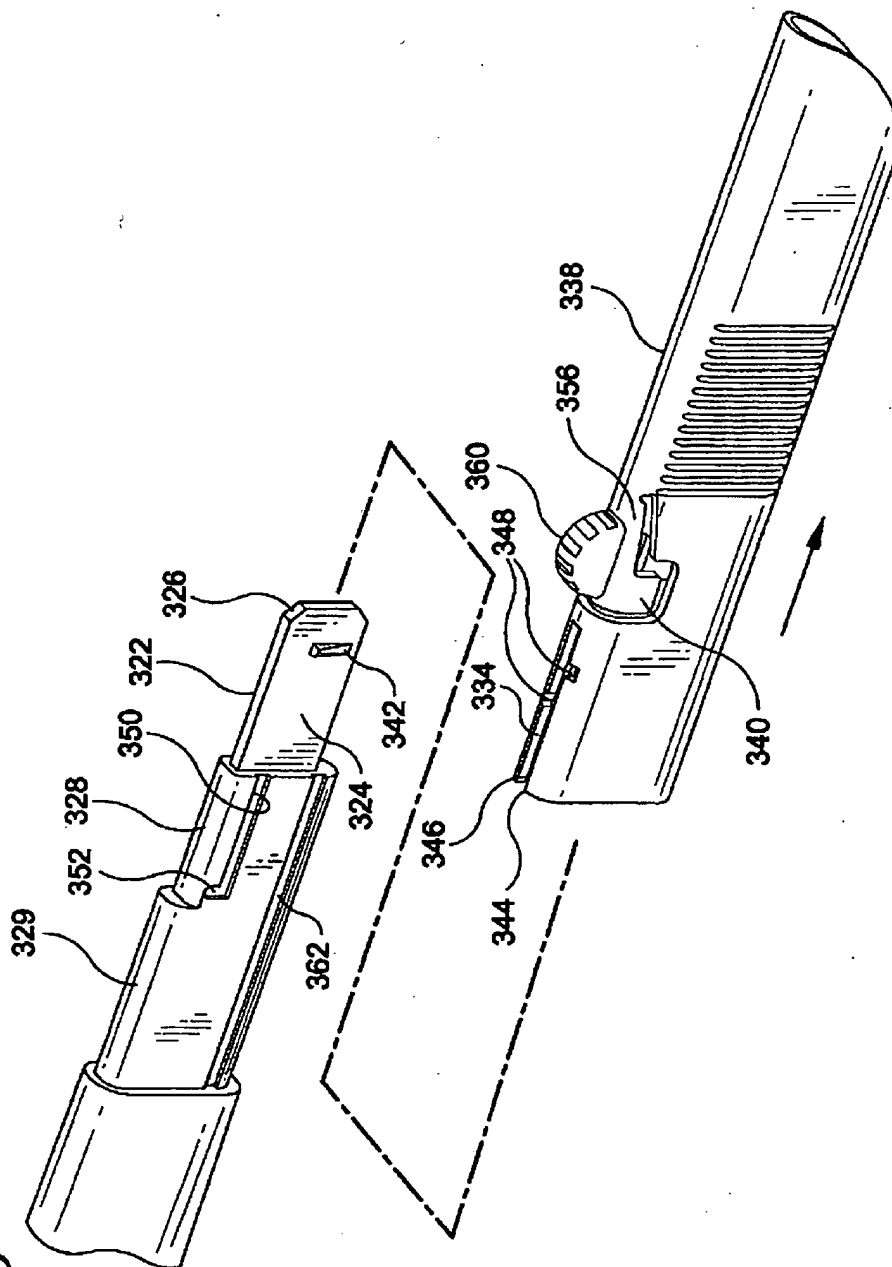
U.S. Patent

Apr. 25, 2000

Sheet 26 of 44

6,053,929

FIG-23

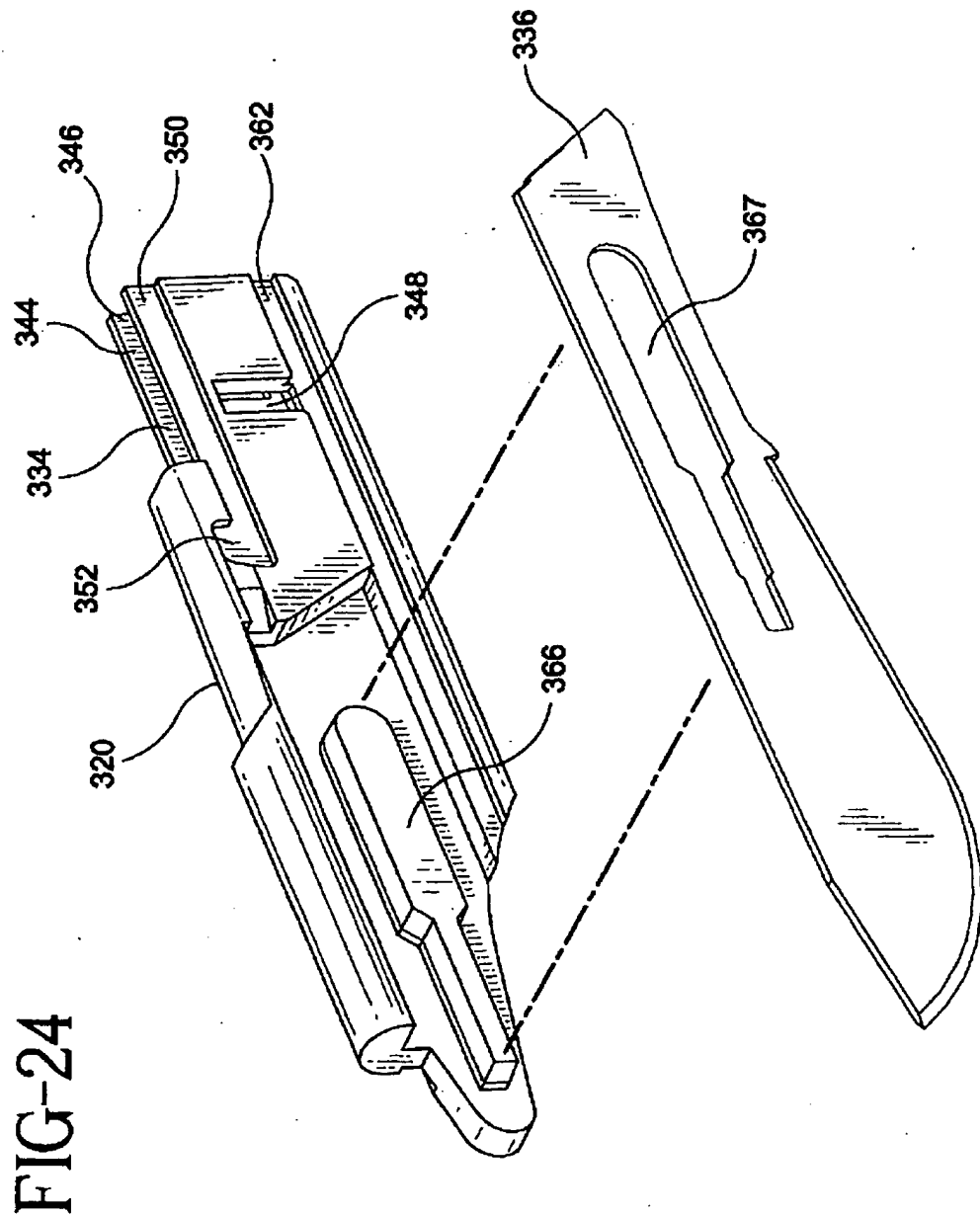


U.S. Patent

Apr. 25, 2000

Sheet 27 of 44

6,053,929

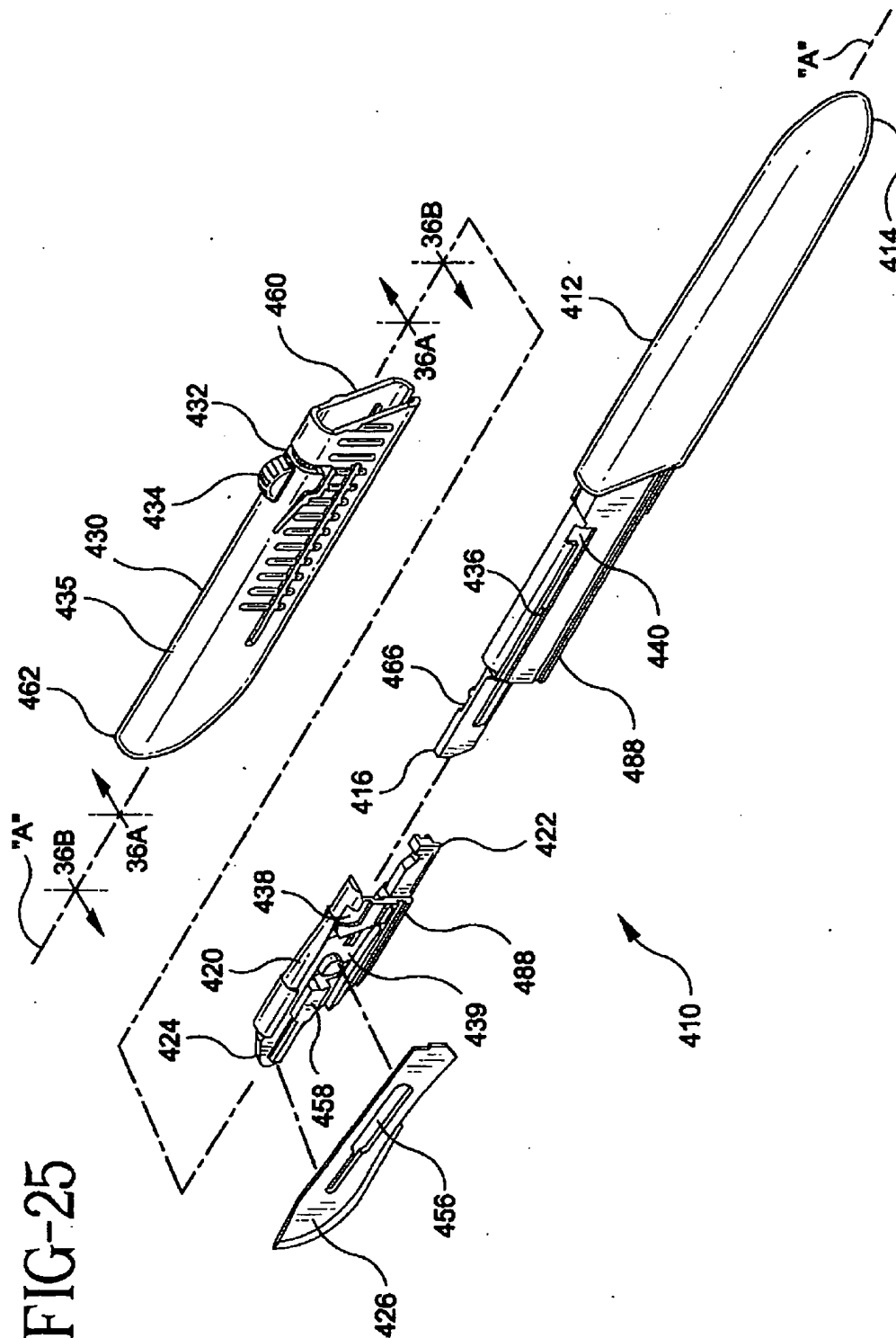


U.S. Patent

Apr. 25, 2000

Sheet 28 of 44

6,053,929

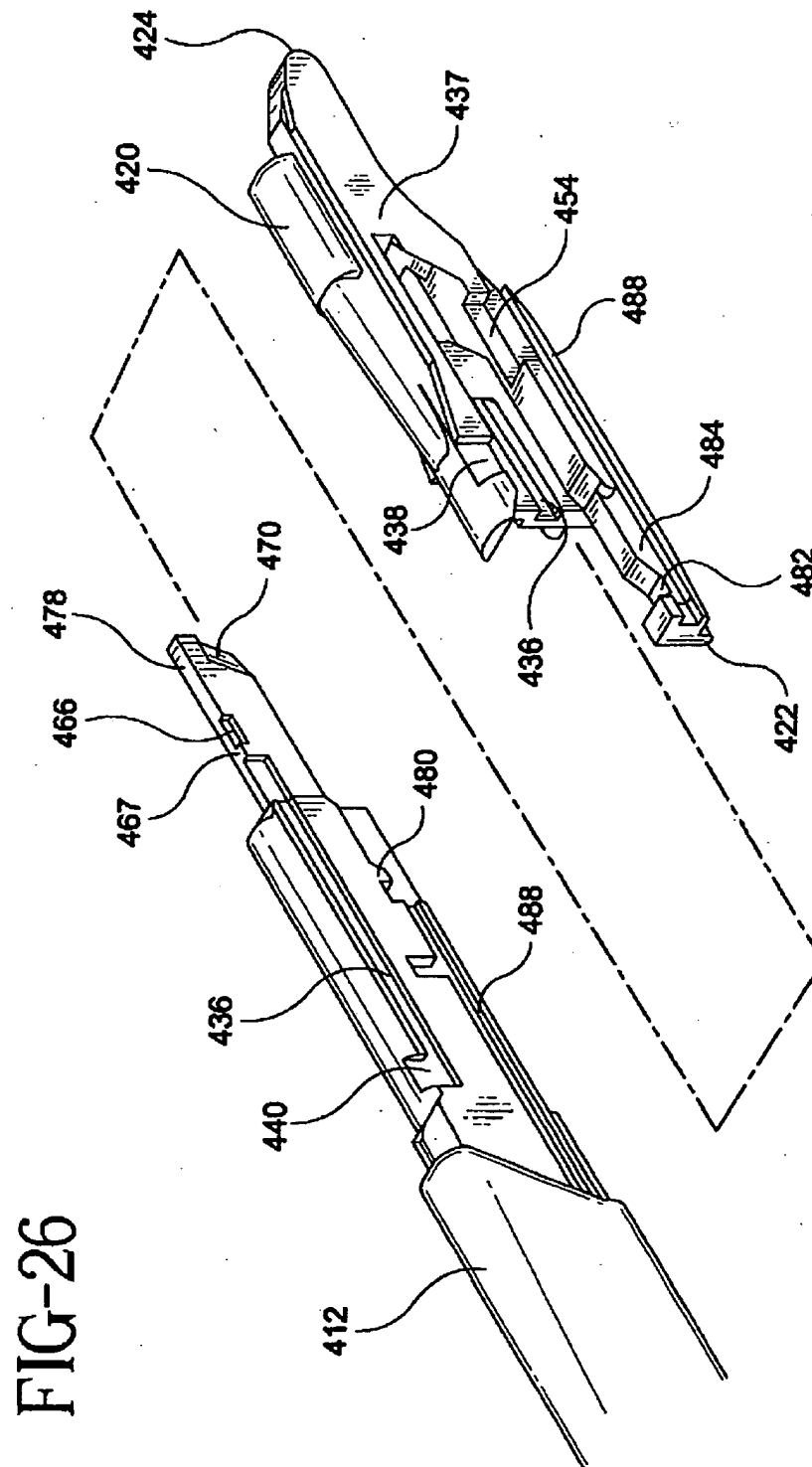


U.S. Patent

Apr. 25, 2000

Sheet 29 of 44

6,053,929



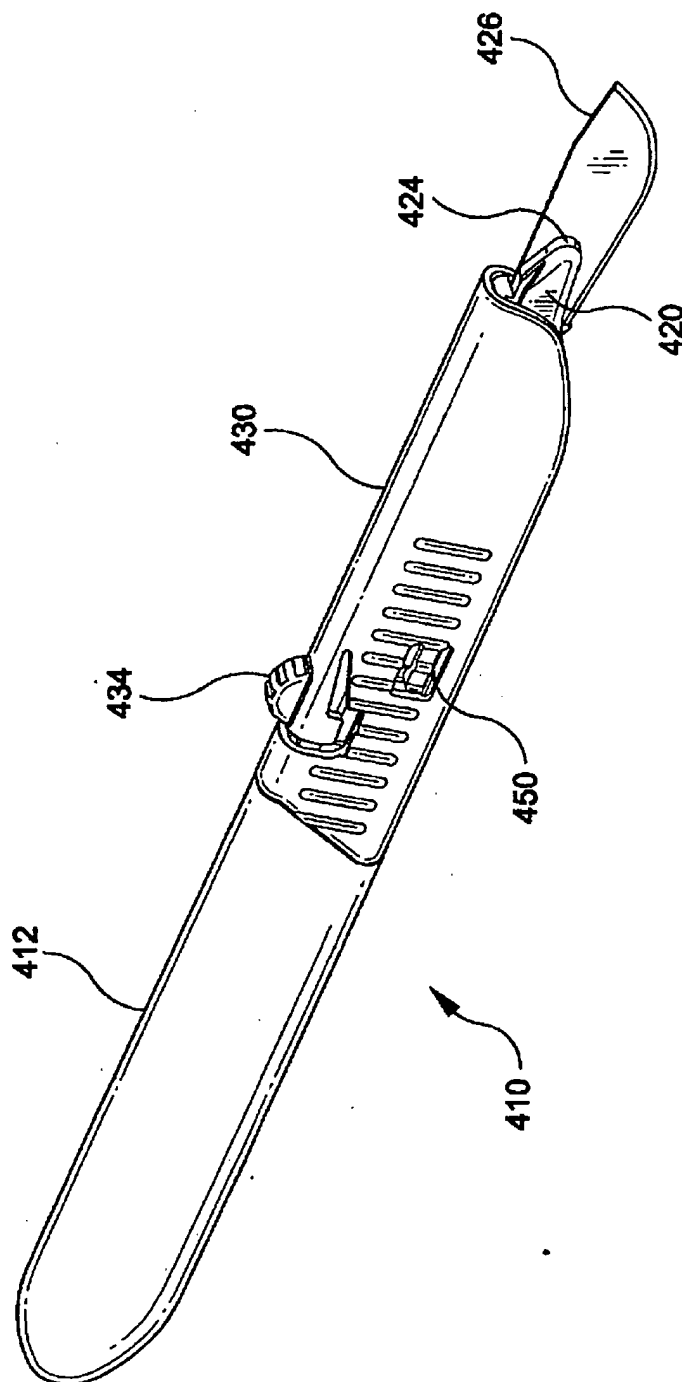
U.S. Patent

Apr. 25, 2000

Sheet 32 of 44

6,053,929

FIG-29



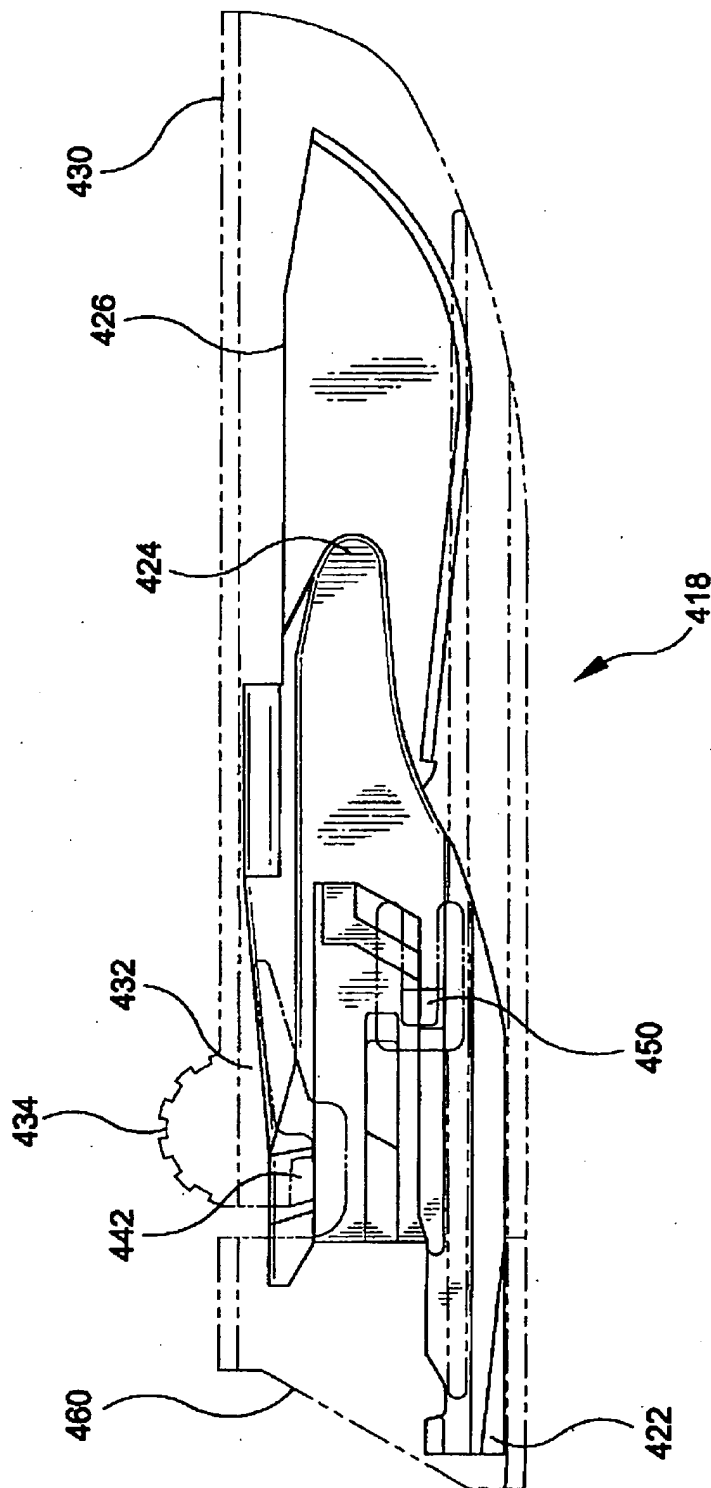
U.S. Patent

Apr. 25, 2000

Sheet 33 of 44

6,053,929

FIG-30



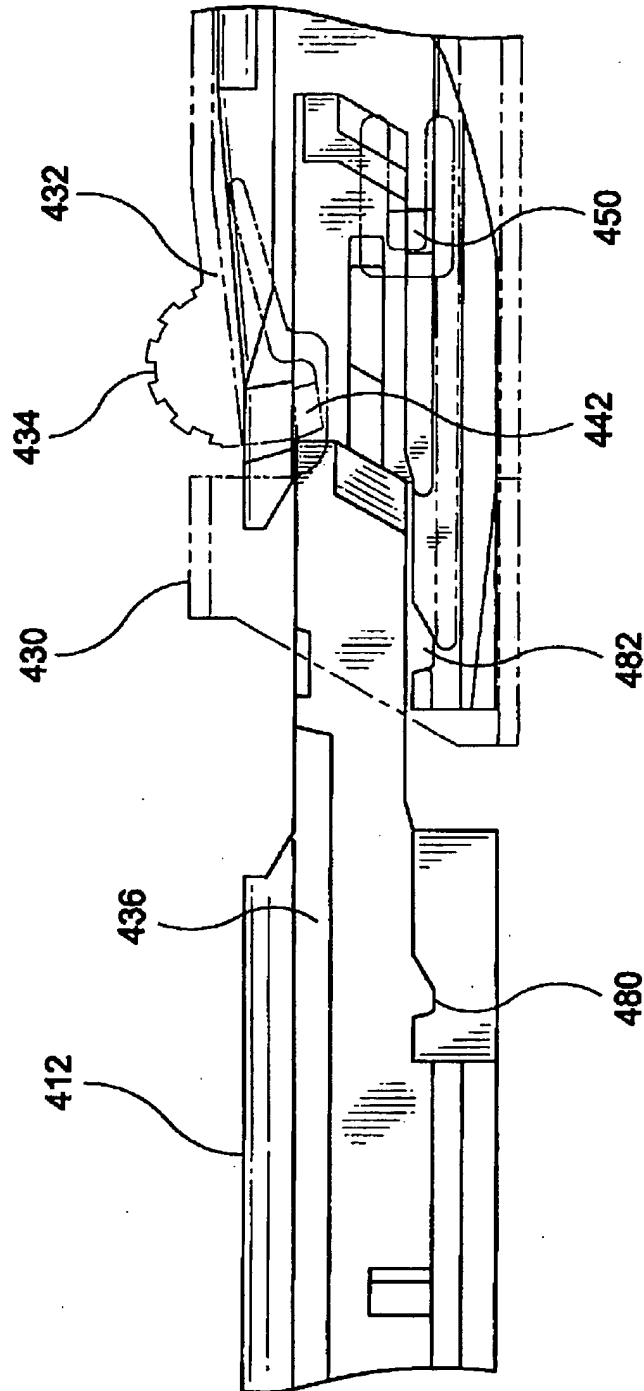
U.S. Patent

Apr. 25, 2000

Sheet 34 of 44

6,053,929

FIG-31



U.S. Patent

Apr. 25, 2000

Sheet 35 of 44

6,053,929

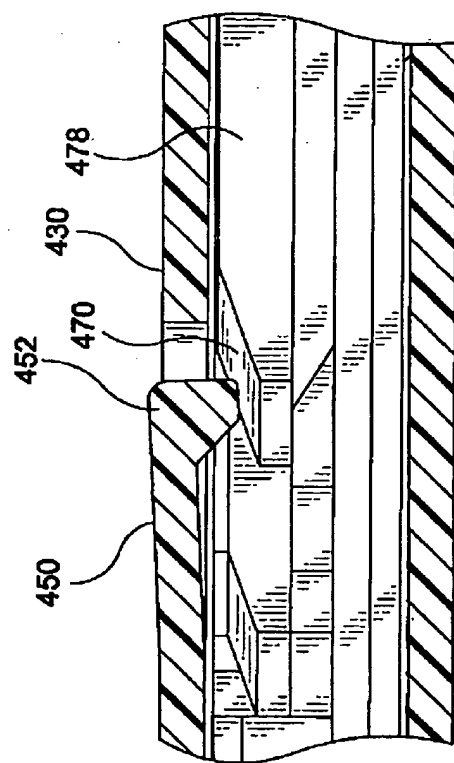


FIG-32

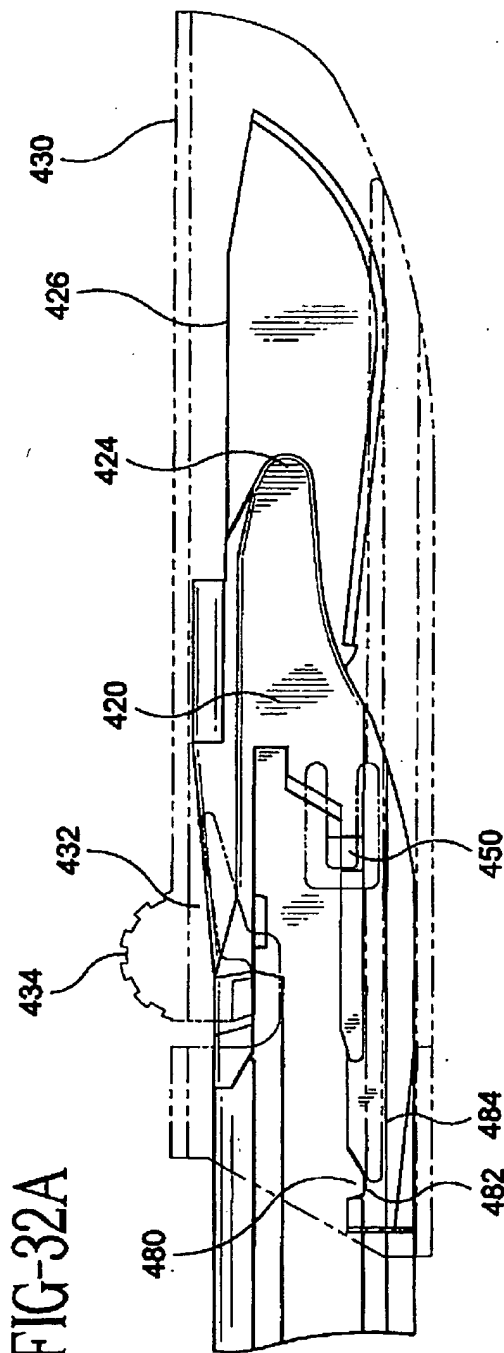


FIG-32A

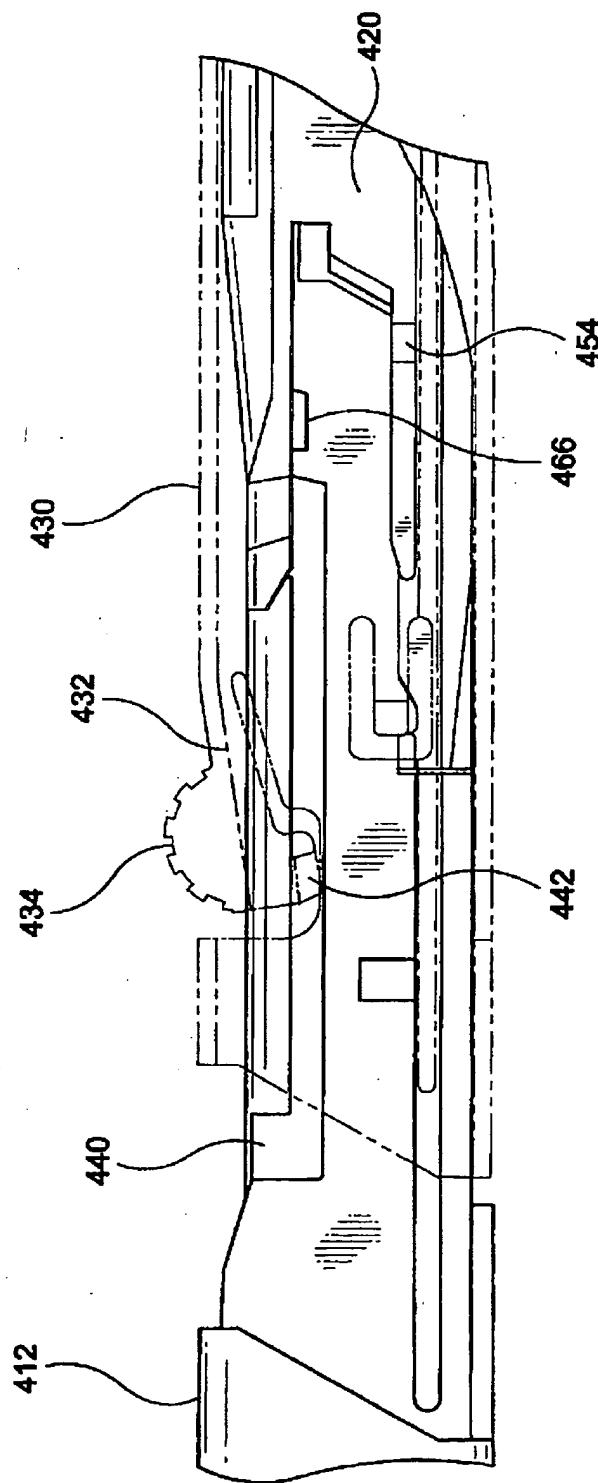
U.S. Patent

Apr. 25, 2000

Sheet 36 of 44

6,053,929

FIG-33



U.S. Patent

Apr. 25, 2000

Sheet 37 of 44

6,053,929

FIG-34A

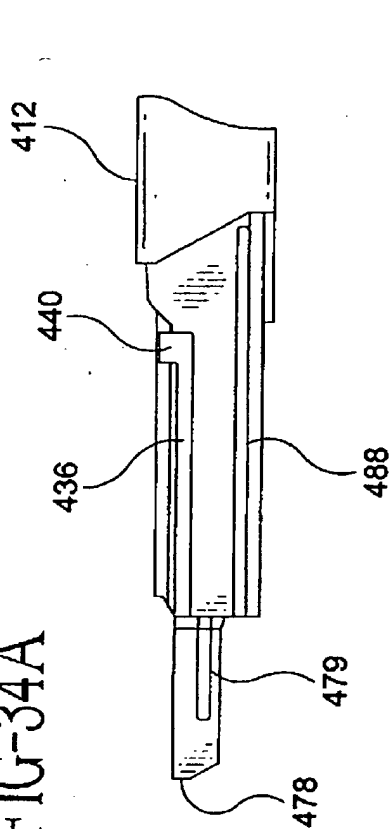


FIG-34B

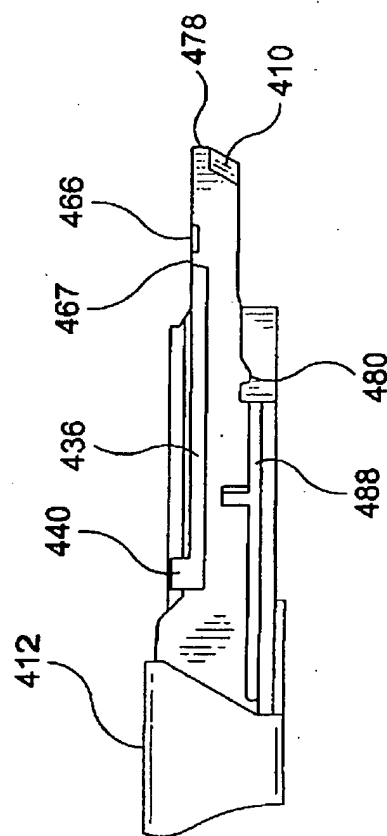
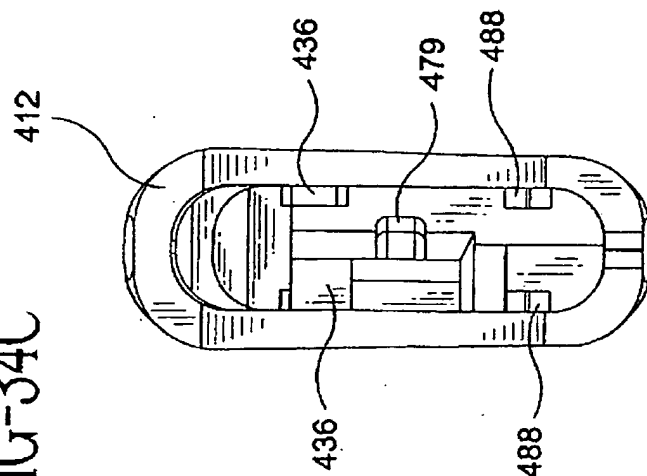


FIG-34C

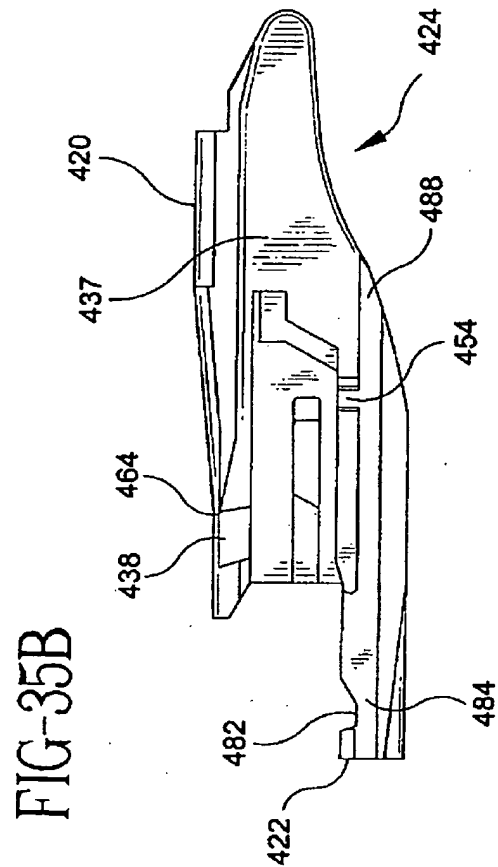
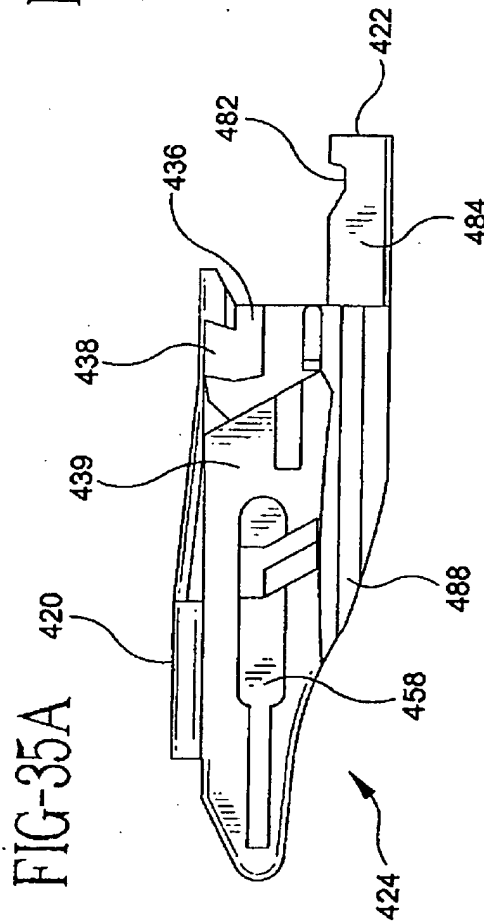
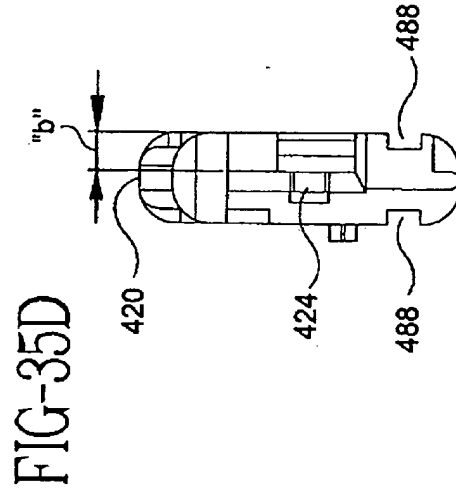
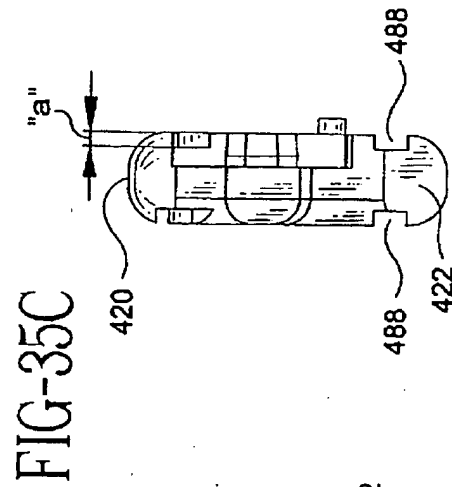


U.S. Patent

Apr. 25, 2000

Sheet 38 of 44

6,053,929



U.S. Patent

Apr. 25, 2000

Sheet 39 of 44

6,053,929

FIG-36A

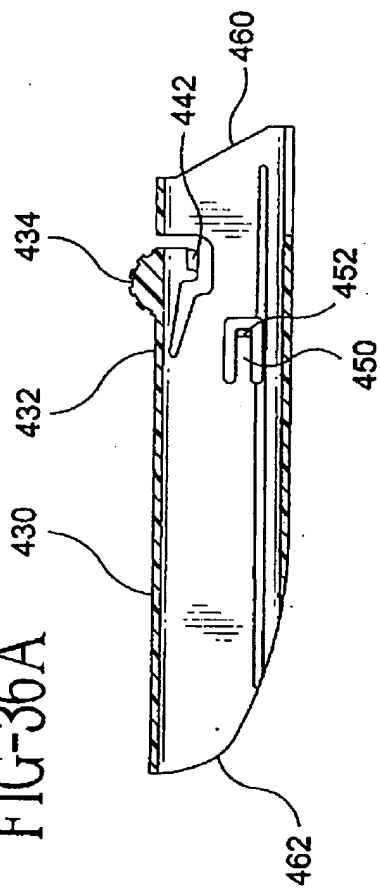


FIG-36B

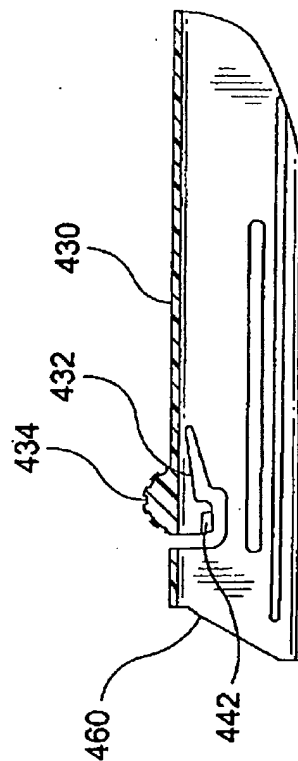
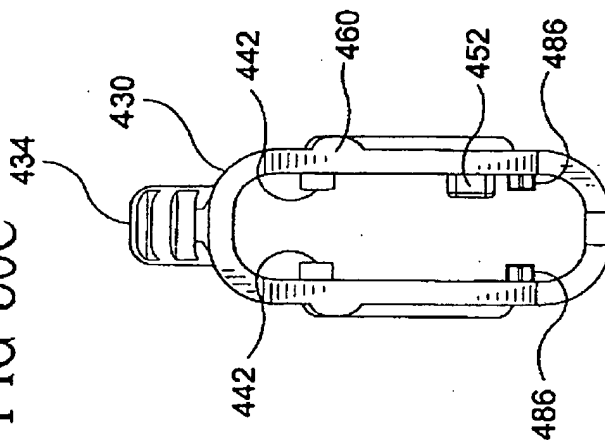


FIG-36C



U.S. Patent

Apr. 25, 2000

Sheet 41 of 44

6,053,929

FIG-38A

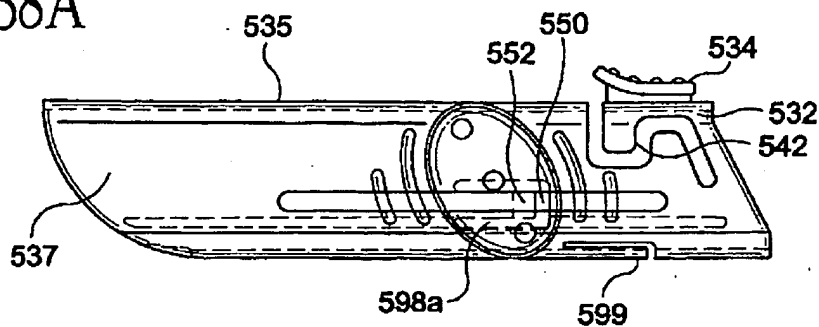


FIG-38B

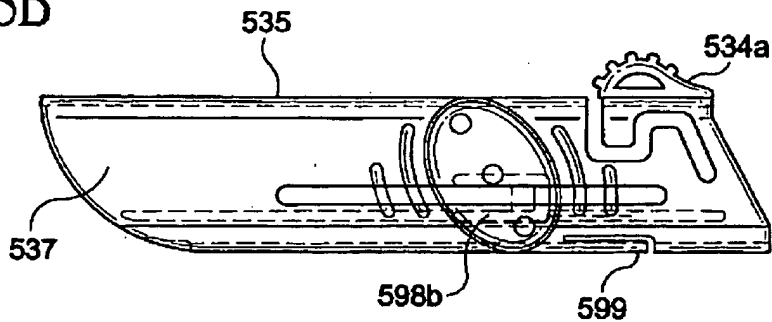
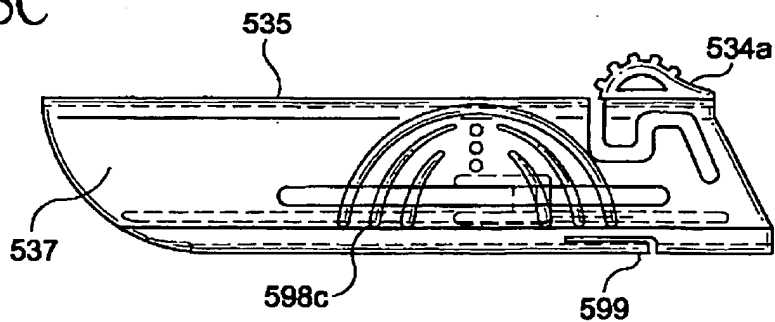


FIG-38C

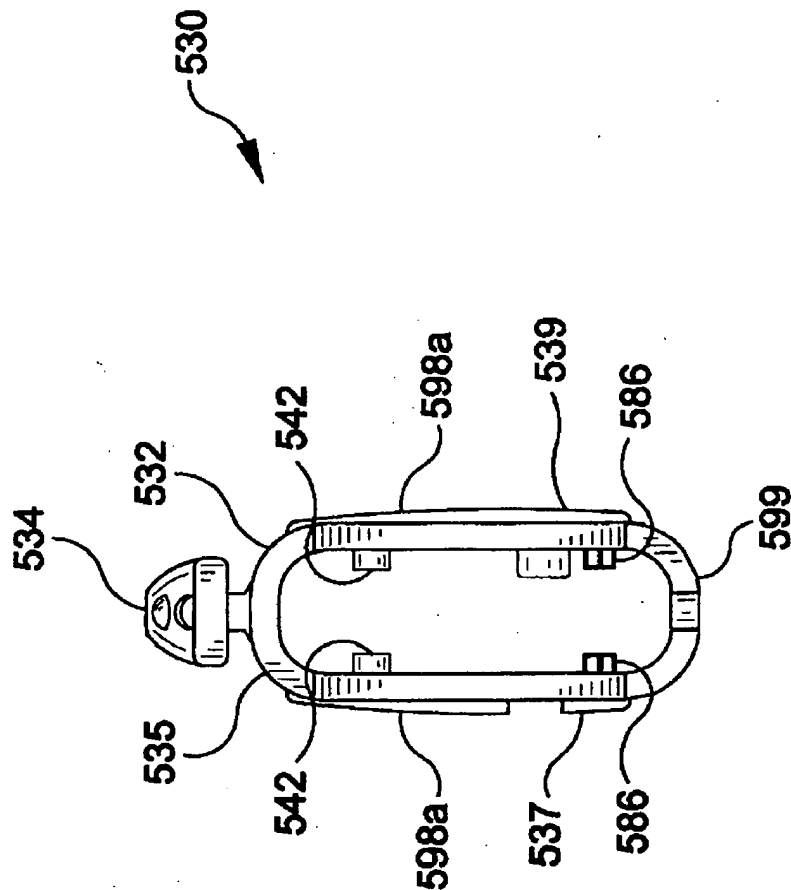


U.S. Patent

Apr. 25, 2000

Sheet 42 of 44

6,053,929



U.S. Patent

Apr. 25, 2000

Sheet 43 of 44

6,053,929

FIG-40b

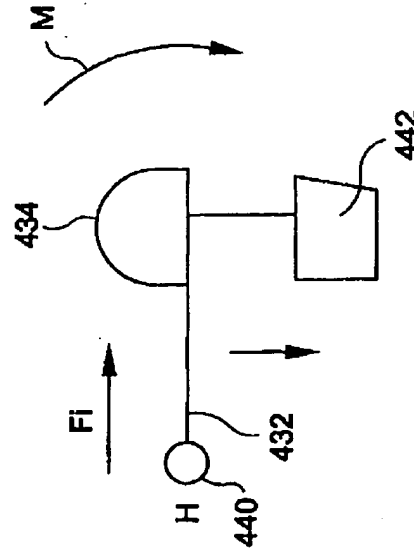
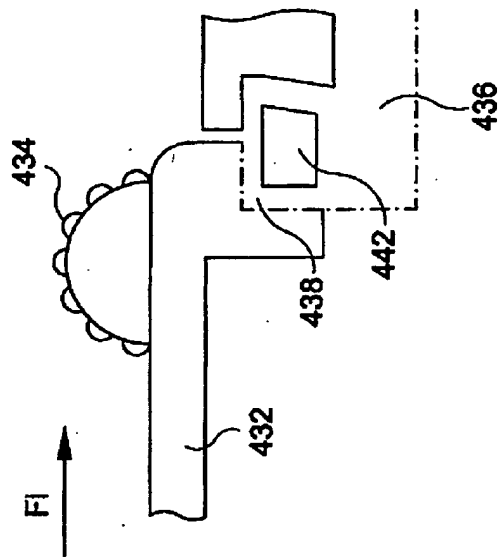


FIG-40a



U.S. Patent

Apr. 25, 2000

Sheet 44 of 44

6,053,929

FIG-40d

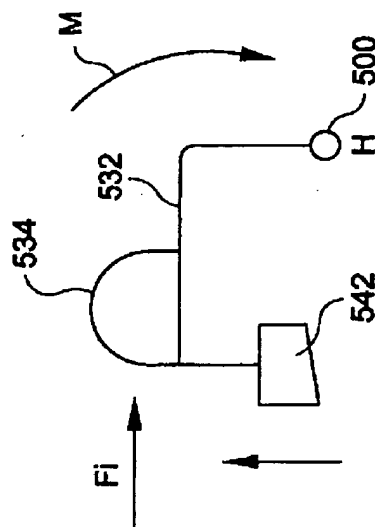


FIG-40c

